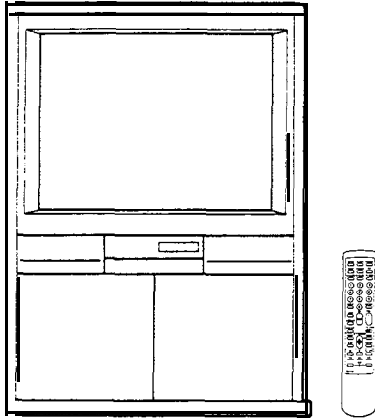


# KV-27TW75/27TW76

## RM-Y102

## SERVICE MANUAL



KV-27TW75 (Natural wood finish)  
KV-27TW76 (Black)

### US Model

KV-27TW75

Chassis No. SCC-E54F-A

KV-27TW76

Chassis No. SCC-E54G-A

### Canadian Model

KV-27TW75

Chassis No. SCC-E65F-A

KV-27TW76

Chassis No. SCC-E65D-A

## LN-1 CHASSIS

### MODELS OF THE SAME SERIES

KV-27TW75/27TW76

KV-27TS27/27TS31

### SPECIFICATIONS

**Television system** American TV standards

**Channel coverage** VHF: 2-13  
UHF: 14-69  
Cable TV: 1-125

**Picture tube** Microblack™ Trinitron® tube  
27-inch picture measured diagonally  
28-inch picture tube measured diagonally

**Antenna** 75-ohm external antenna terminal for VHF/UHF

**Input** VIDEO and S VIDEO  
S VIDEO IN (S terminal)  
Y: 1 Vp-p, 75-ohms  
unbalanced, sync negative  
C: 0.286 Vp-p (Burst signal),  
75-ohms

Video (phono jacks): 1 Vp-p,  
75-ohms unbalanced,  
sync negative

Audio (phono jacks): 500 mVrms  
(100% modulation)  
Impedance: 47 kilohms

**output** AUDIO OUT (VARIABLE) (phono jacks)  
More than 408 mVrms at the  
maximum volume setting (variable)  
Impedance: 5 kilohms

**Speaker output** 5 W x 2

**Audio Power:** 5 watts/channel minimum continuous RMS  
power, 2 channels driven into 8 ohms from  
80Hz to 20kHz with 10% or less THD, mea-  
sured from auxiliary input to load

**Power requirements** 120 V AC, 60 Hz

**Power consumption** 170w  
5W Standby mode

**Dimensions (w / h / d)** 758.0 x 100.0 x 635.0 mm  
(29 1/2 x 39 3/8 x 25 in.)

**Weight** 88.6 kg  
(195 lbs 6 oz)

#### Supplied accessories

Remote commander RM-Y102 (1) with 2 size AA  
(R6) EVEREADY batteries

#### Recommended accessories

UN mixer EAC-66  
Connecting cable  
VMC-810/820S, YC-15 V/30 V, RK-74A

Design and specifications are subject to change without  
notice.



TRINITRON® COLOR TV  
**SONY®**

**(CAUTION)**

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

**WARNING!!**

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

**SAFETY-RELATED COMPONENT WARNING !!**

COMPONENTS IDENTIFIED BY SHADING AND MARK  $\Delta$  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

**(ATTENTION)**

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

**ATTENTION!!**

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISE LORS DE TOUT DEPANAGE. LE CHÂSSIS DE CE RECEPTEUR EST DIRECTEMENT RACCORDE A L'ALIMENTATION SECTEUR.

**ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!**

LES COMPOSANTS IDENTIFIES PAR UNE TRAME ET PAR UNE MAPQUE  $\Delta$  SUR LES SCHEMAS DE PRINCIPE, LES VUES EXPLOSEES ET LES LISTES DE PIECES CONT D'UNE IMPORTANCE CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMERO DE PIECE EST INDIQUE DANS LE PRESENT MANUEL OU DANS DES SUPPLEMENTS PUBLIES PAR SONY. LES REGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRESENT MANUEL. SUIVRE CES PROCEDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTE.

# SAFETY CHECK-OUT

(US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

- 1 Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges
- 2 Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
- 3 Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
- 4 Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
- 5 Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
- 6 Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate, be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

## LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 2.50 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery-operated digital multimeters that have a 2V AC range are suitable (See Fig. A).

## HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watt trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line; the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B).

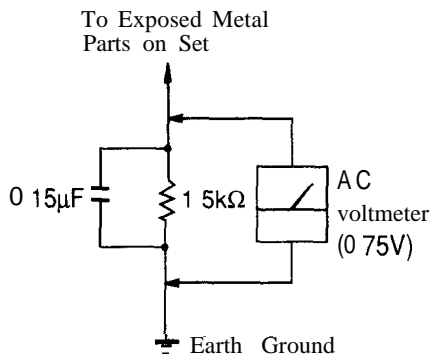


Fig A. Using an AC voltmeter to check AC leakage

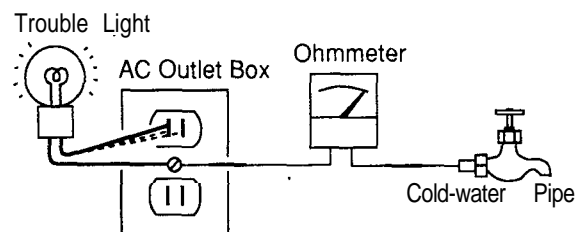


Fig B Checking for earth ground.

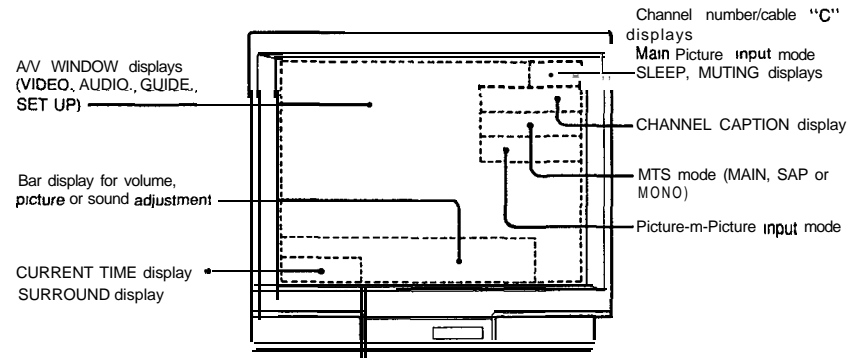
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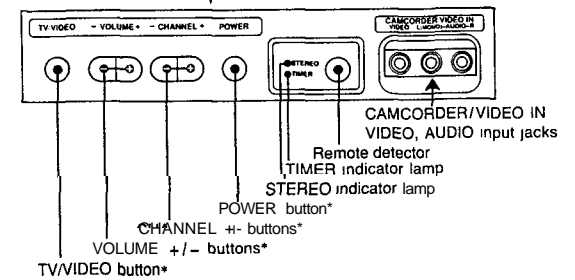
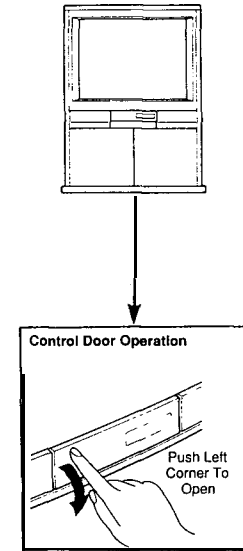
# SECTION 1 GENERAL

## 1-1. LOCATING THE CONTROLS

### Screen Displays

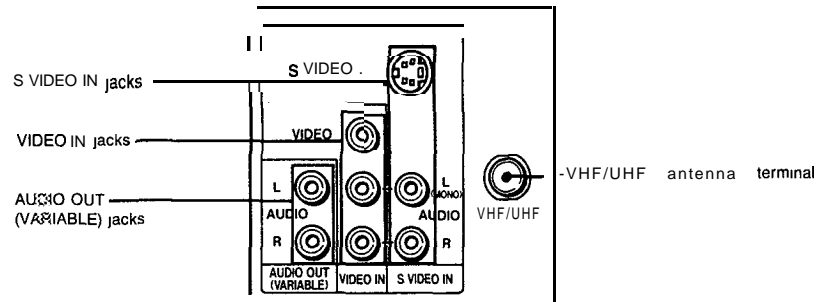


### Front Panel

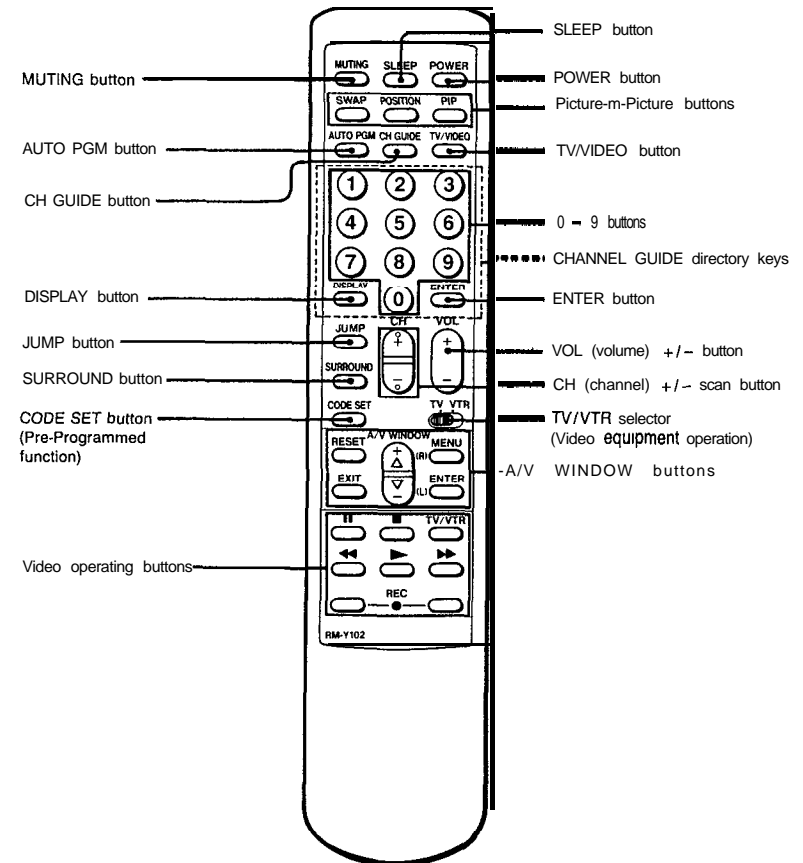


\* Buttons with the same function are also located on the Remote Commander.

## Rear Panel



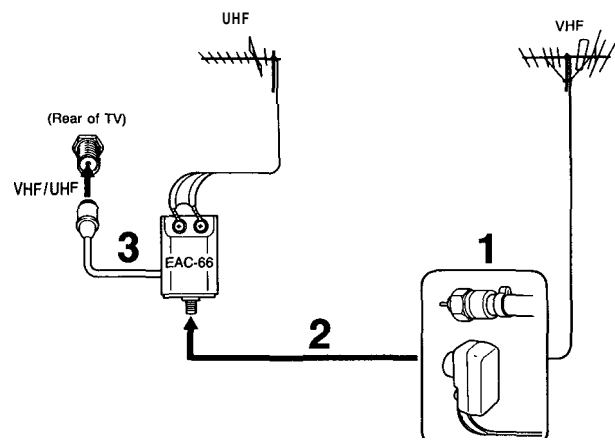
## Remote Commander



## 1-2. CONNECTING TV ANTENNA/CABLE

Use the EAC-66 U/V mixer (not supplied).

- 1 Prepare the VHF antenna end using the appropriate connector (p. 12)
- 2 Connect the cables to the mixer
- 3 Attach the mixer to the VHF/UHF terminal.



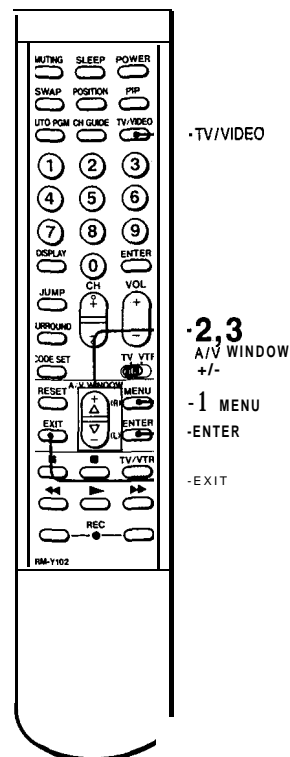
When the U/V mixer is used

Show and noise may appear in the pictures of the cable N channels over 37 (W+1)

## 1-3. TURNING THE CABLE MODE ON OR OFF

AN of the controls are on the Remote Commander.

If you have cable connected to your N, follow the steps below to turn the cable connection on or off. Cable mode is preset to ON when you use your N for the first time: turn cable OFF to preset or watch VHF or UHF channels.

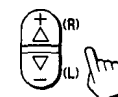


- 1 Press MENU to display the following screen.



AN WINDOW  
VIDEO  
AUDIO  
GUIDE  
SET UP  
USE [F1] & [ENTER]

- 2 Press the +/- button to select SET UP



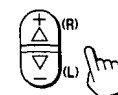
A/V WINDOW  
VIDEO  
AUDIO  
GUIDE  
SET UP  
USE [F1] & [ENTER]

Press ENTER.



SET UP  
CURRENT TIME SET  
CHANNEL CAPTION  
CHANNEL ERASE  
CHANNEL ADD  
CABLE OFF

- 3 Press +/- button and ENTER to select CABLE.



SET UP  
CURRENT TIME SET  
CHANNEL CAPTION  
CHANNEL ERASE  
CHANNEL ADD  
CABLE OFF

Press the +/- button and ENTER to select ON or OFF alternately.

SET UP  
CURRENT TIME SET  
CHANNEL CAPTION  
CHANNEL ERASE  
CHANNEL ADD  
CABLE ON  
USE [F1] & [ENTER]



SET UP  
CURRENT TIME SET  
CHANNEL CAPTION  
CHANNEL ERASE  
CHANNEL ADD  
CABLE OFF  
USE [F1] & [ENTER]

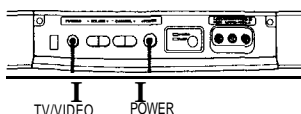
To return to TV mode.  
Press EXIT.

### Notes

- You cannot set CABLE ON/OFF while the N is in VIDEO mode. Before setting, select N mode by pressing N/VIDEO.
- The menu will be cancelled automatically after 10 seconds if you do not push any buttons during that time.

## I-4. PRESETTING TV CHANNELS

### Presetting TV



1 Press POWER on the N or the Remote Commander to turn the TV on.

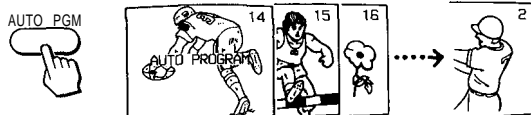


2 Turn the cable connection on or off, depending on if you want to preset cable or VHF/UHF channels.

(FOLLOW THE STEPS ON P 14)

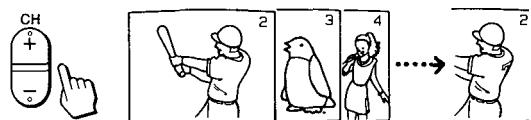
If "VIDEO" or "S VIDEO" is displayed on the screen, press the TV/VIDEO button on the TV or the Remote Commander so that a channel number appears.

3 Press AUTO PGM



"AUTO PROGRAM" is displayed on the screen and receivable channels (other than the channels already preset) will be preset in numerical sequence. The channels previously preset remain in the TV's memory. When no more channels can be found, the programming stops and the lowest numbered channel is displayed.

4 Press CH +/- to check or view preset channels



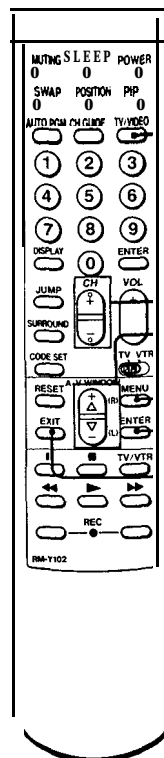
Channels that can be received on this TV:

VHF: 2 - 13

UHF: 14 - 63

Cable: 1 - 125

To erase "necessary channels, or to add channels that could not be preset automatically because their signal strength was too weak, follow the steps in "Erasing Unnecessary Channels" and "Presetting Only Deselected Channels"



-N/VIDEO

-4 CH +/-

-2,3

A/V WINDOW +/-

-1 MENU

-ENTER

-EXIT

Use this feature to erase non-receiving channels from the channel scan memory.

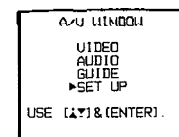
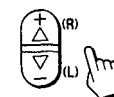
#### Note

You cannot use CHANNEL ERASE while the TV is in VIDEO mode. Before erasing channels, select N mode by pressing TV/VIDEO.

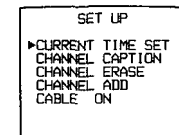
1 Press MENU to display the following screen.



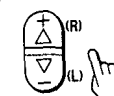
2 Press the +/- button to select SET UP



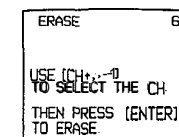
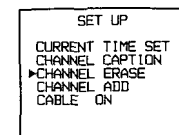
Press ENTER.



3 Press the +/- button to select CHANNEL ERASE.

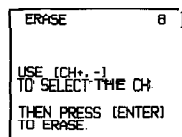
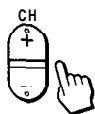


Press ENTER.



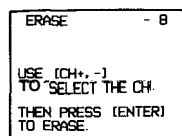


#### 4 Press the CH +/- button to select the channel you want to erase.



Press ENTER.

A "—" appears before the channel number, showing that the channel has been erased from the channel scan memory.



The next time you press the CH +/- buttons, channel 8 will be skipped. Repeat step 4 to erase other channels.

To return to TV mode Press EXIT.

#### Note

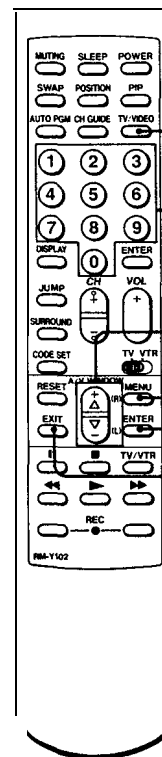
When you erase a VHF or UHF channel, the cable TV channel with the same number is also erased, and vice versa.

#### Cable N channel chart\*

Cable N systems use letters or numbers to designate channels. To tune in a channel, refer to the chart below.

Number on this TV	Corresponding cable TV channel
1	A-8
5	A-7
6	A-6
14	A
15	B
16	C
17	D
18	E
19	F
20	G
21	H
22	I
23	J
24	K
25	L
26	M
27	N
28	O
29	P
30	Q
31	R
32	S
33	T
34	U
35	V
36	W
37	W + 1
38	W + 2
39	W + 3
93	W + 57
94	W + 58
95	A-5
96	A-4
97	A-3
98	A-2
99	A-1
100	W + 59
101	W + 60
102	W + 61
123	W + 82
124	W + 83
125	W + 84

\* This designation of cable N channels conforms to the EIA/NCTA recommendation. Check with your local cable N company for more complete information on the available channels.



-N/VIDEO

-4 0 - 9 buttons

-2,3 A/V WINDOW +/-

-1 MENU

-ENTER

-EXIT

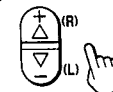
Use this feature to add channels one by one to the channel scan memory.

#### Note

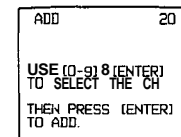
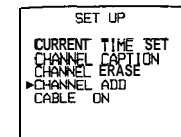
You cannot use CHANNEL ADD while the N is in VIDEO mode. Before adding channels, select N mode by pressing TV/VIDEO.

## 1-2 (FOLLOW STEPS 1 & 2 ON)

### 3 Press the +/- button to select CHANNEL ADD.



Press ENTER.

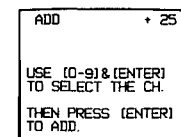
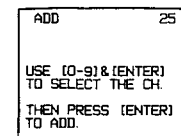


### 4 Press the 0 - 9 buttons to Select the channel you want to add. For example, to add channel 25, press 2, 5 and ENTER.



Press ENTER again.

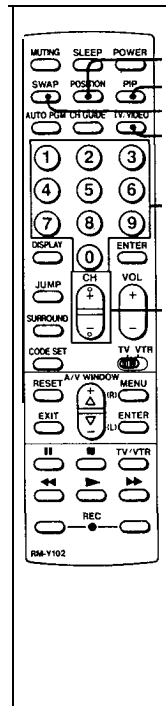
A "+" appears before the channel number, showing that the channel has been added to the channel scan memory.



Repeat step 4 to add other channels.

To return to TV mode Press EXIT.

## 1-5. USING PICTURE-IN-PICTURE



-POSITION

-PIP

-SWAP

-TV/VIDEO

-0 - 9 buttons

-CH +/-

With this feature, you can watch both the main picture and a video source simultaneously, by means of a window picture.

For example, use Picture-in-Picture when you want to watch a TV program and a video source from connected equipment (VCR, video disc player, etc.) at the same time.

If you connect a VCR, you can watch two different TV programs at the same time.

### Displaying a window picture — PIP

Press PIP



Input source mode or TV channel for the main picture (display is green)

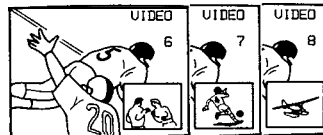
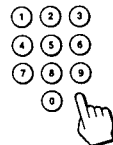
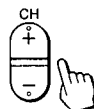


Input source mode or TV channel for the window picture (display is white)

A window picture will appear in the same input mode as the last time you used PIP

### Scanning channels in the window picture

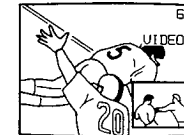
Press CH +/- or the 0 - 9 buttons and ENTER.



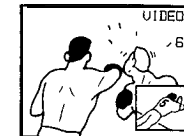
To make the window picture disappear  
Press PIP again.

### Swapping the main and window pictures — SWAP

1 Press PIP to display a window picture



2 Press SWAP



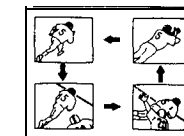
### Changing the position of the window picture — POSITION

1 Press PIP to display a window picture.



2 Press POSITION.

Each time you press POSITION, the window picture will move counterclockwise on the screen, as illustrated below.

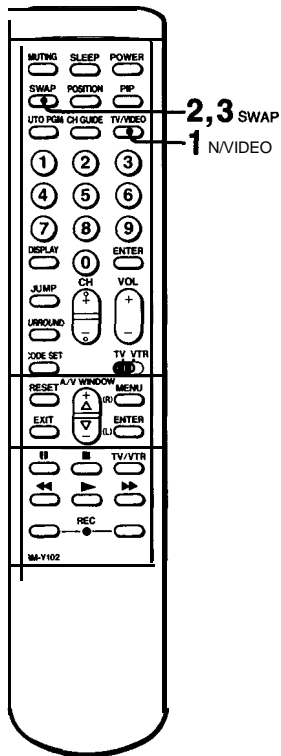


To change the input mode of the window picture

- 1 Press TV/VIDEO to change the input mode of the main picture.  
(Selects TV, VIDEO, S VIDEO in sequence)
- 2 Press SWAP to swap the main picture with the window picture.

#### Notes

- You cannot hear the sound of the window picture channel.
- If the main picture is blocked, the display "BLOCKED" will appear on the main screen, and Picture-in-Picture will not function.
- If the main picture is not receiving an image, the window picture will disappear. It will reappear when you switch to a receiving channel.
- When the main picture is black and white, depending on the TV signal some window picture images may also be black and white.
- When you turn PIP on, or when you turn the TV on with PIP mode on, the window picture will appear at the bottom right of the screen.
- Depending on the condition of the main picture's signal, the window picture may be affected



### Displaying a VIDEO Input image as a window picture

To watch VIDEO images (VCR playback or TV through a VCR tuner) using Picture-m-Picture, first select a program mode (cable or VHF/UHF) by following the steps, "Turning the Cable Connection On or Off." Then follow the steps below.

- 1 Press **TV/VIDEO** to select the appropriate video input mode. (Selects TV, VIDEO and S VIDEO modes in sequence)

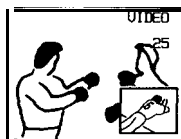


The video image from the input mode you select will appear as the main picture.

- 2 Press **SWAP** so that the video input picture becomes a window picture.



- 3 Press **SWAP** again to change the video input picture back to the main picture.



You can only change VIDEO input modes of the main picture.

### Note

To operate your VCR with the supplied Remote Commander, — "Using the Remote Commander."

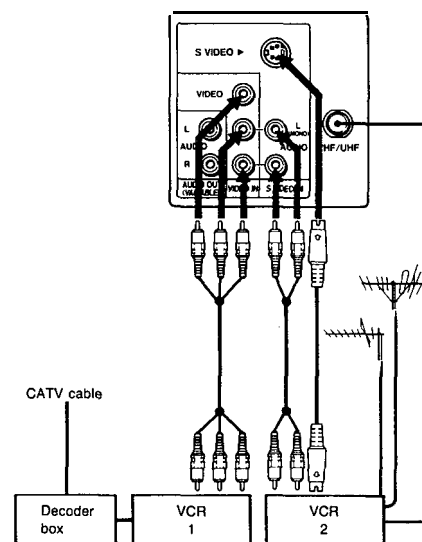
### Displaying pay cable TV as a window picture

In order to use Picture-m-Picture with pay cable TV images, make sure the connections are made as illustrated below. Select cable mode by following the steps, "Turning the Cable Connection On or Off." Then follow the steps below.

- 1 - 3 Follow steps 1 - 3 in "To display a VIDEO input image as a window picture".

- 4 Put your VCR on an inactive channel (CH 3 or 4).

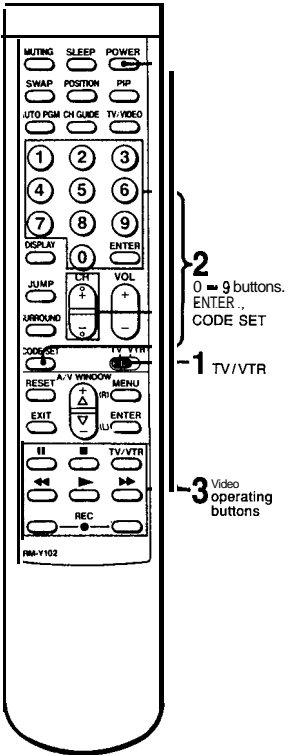
- 5 Change pay cable TV channels with the decoder box



1-6. USING THE PRE-PROGRAMMED REMOTE COMMANDER

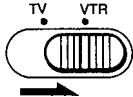
You can operate other video equipment that has an infrared remote detector with this supplied Pre-Programmed Remote Commander.

Operating Sony or non-Sony Video Equipment -- Pre-Programmed Function



With the supplied Remote Commander, you can operate a Sony video cassette recorder (Beta, 8mm, VHS) or multi disc player as well as most non-Sony video equipment connected to your TV by following the steps below.

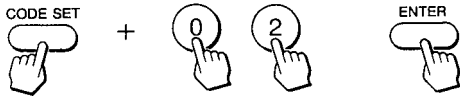
1 Set the TV/VTR selector to VTR.



Note

When the selector is set to VTR, the POWER and CH +/- buttons on the Remote Commander function as video operating buttons and cannot be used to operate the TV.

2 While pressing CODE SET, press the 0 - 9 buttons to enter the manufacturer's code number. For example, to operate a Sony 8 mm VCR, press 0, 2 and ENTER.



3 Use the video operating buttons on the Remote Commander to operate the video equipment.

Operating a VCR

To turn on or off Press POWER  
To change channels Press CH +/-

To watch TV programs through the VCR's tuner)

To record Press (2 buttons simultaneously).  
To play Press >  
To stop Press ■.  
To fast forward Press >>  
To rewind the tape Press <<.  
To pause Press II.  
To search the picture forward and backward Press >> or << during playback.

Operating a Video Disc Player

To play Press >  
To stop Press ■.  
To pause Press II.

To resume normal playback, press again.  
• This function is effective only for CAV (standard-play disc). With CLV (extended-play disc), the TV will go into the standby mode if II is pressed.

To search the picture forward and backward Keep pressing >> or << during playback.  
To resume normal playback, release the button.

Manufacturers and Code Numbers (VCR)

Manufacturer	Code number
SONY	01, 02, 03, 04
CANON	05
EMERSON	22, 30, 33
FISHER	10, 11, 12, 15
FUNAI	29
GENERAL ELECTRIC	05, 08
GOLDSTAR	25
HITACHI	07, 08
JVC	16
MAGNAVOX	05, 06, 09
MITSUBISHI	18, 19, 26, 27
MULTITECH	29
NEC	16, 23, 31
PANASONIC	05, 06
PHILCO	05, 06
PHILIPS	05, 06, 09
QUASAR	05, 06
RCA	07, 08
SAMSUNG	24, 32
SANYO	11, 15
SCOTT	21
SHARP	13, 14
SHINTOM	34
SYLVANIA	05, 06, 09
SYMPHONIC	29
TEKNIKA	28, 29
TOSHIBA	20, 21
TOTE VISION	25
ZENITH	17

The code numbers for Sony equipment are assigned as follows:

01 Beta, ED Beta VCR  
02 8mm VCR  
03 VHS VCR  
04 Video disc player

For your convenience

Write the manufacturer name and code number for your equipment onto one of the supplied self-adhesive labels and affix to the Remote Commander for easy reference.

BRAND	CODE
1	
2	
13	

Notes

If more than one code number is listed for manufacturers other than Sony, by entering them one by one, until you come to the correct code for your equipment.

If the video equipment does not have a certain function, the corresponding button on this Remote Commander will not operate.

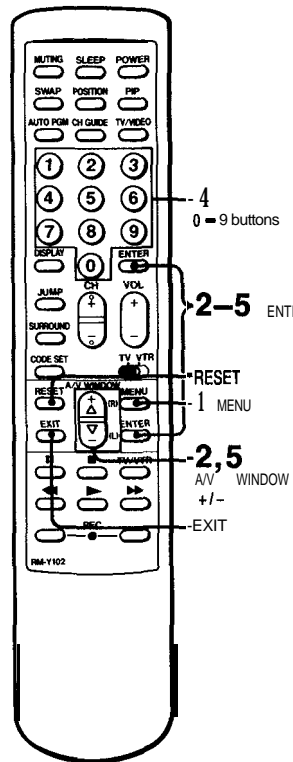
Note

In some rare cases, you may not be able to operate your non-Sony video equipment with the supplied Remote Commander. This is because your equipment may use a code that is not provided with this Remote Commander. In this case, please use the equipment's own remote control unit.

CAUTION

When you remove the batteries from the Remote Commander, all the settings will revert to the Sony Beta setting. Reset the codes by following the steps on p. 30.

## 1-7. SETTING THE CURRENT TIME

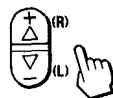


Set the current time before **using** the Timer-activated functions from the GUIDE menu.

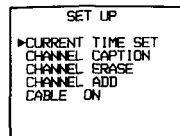
- 1 Press MENU to display the following screen.



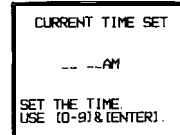
- 2 Press the +/- button to select SET UP



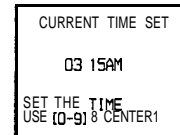
Press ENTER.  
CURRENT TIME SET is already selected for you.



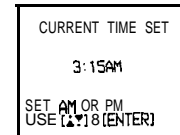
- 3 Press ENTER.



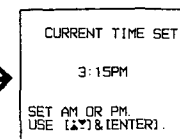
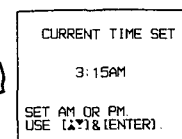
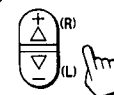
- 4 Press the 0 - 9 buttons and ENTER to enter the current time. For example, to set the time at 3:15, press 0, 3, 1, 5. (You must press 4 digits.)



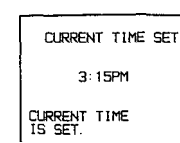
Press ENTER.



- 5 Press the +/- button, to select AM or PM alternately.



Press ENTER



To clear the time setting  
Press RESET.

To reset the time  
Press RESET while in the CURRENT TIME screen, and repeat steps 4 and 5.

To display the time  
Set TIME DISPLAY ON/OFF.

To return to TV mode  
Press EXIT.

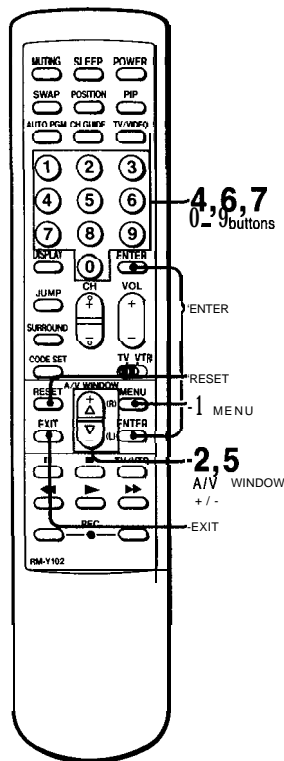
### Notes

- The internal clock of this TV operates on a 12-hour cycle. If a 24-hour cycle number (for instance, 13:00) is entered, it will be cleared when you press ENTER.

12:00 AM stands for midnight.  
12:00 PM stands for noon.

- All the settings including TIME SET will be erased if you unplug the TV, or if a power failure occurs. Reset the current time by following steps 1-5.

## 1-8. USING THE TIMER-ACTIVATED FUNCTIONS-GUIDE



Using the GUIDE feature, you can call up an on-screen menu giving instructions on how to use the timer-activated functions: ON/OFF TIMER, CHANNEL BLOCK, AND TIME DISPLAY ON/OFF

### Setting the ON/OFF TIMER

With this function you can set your favorite program to appear on the screen at the time that you set.

EXAMPLE: Set the timer to turn on the TV to channel 21 at 3:15 PM, for 2 hours.

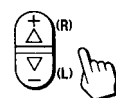
1 Press MENU to display the following screen.



A/V WINDOW

VIDEO  
AUDIO  
GUIDE  
SET UP  
USE [▲▼] & [ENTER].

2 Press the +/- button to select GUIDE.



A/V WINDOW

VIDEO  
AUDIO  
GUIDE  
SET UP  
USE [▲▼] & [ENTER].

Press ENTER.

ON/OFF TIMER is already selected for you.



GUIDE

ON/OFF TIMER  
CHANNEL BLOCK  
TIME DISPLAY ON

3 Press ENTER.



GUIDE

CURRENT TIME IS  
NOT SET.  
PRESS [ENTER] TO  
SET THE TIME

If this screen appears, follow steps 3 & 4 on pp. 32 & 33. Then begin again from step 1 on this page.

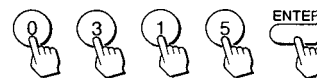
ON/OFF TIMER

-- :-- AM .H CH--

SET THE TIME.  
USE [0-9] & [ENTER]

If this screen appears, continue from step 4 on the next page.

4 Set the time that you want the TIMER to start by pressing 0 - 9 (you must press 4 digits) and ENTER.



ON/OFF TIMER

03:15AM .H CH--

SET THE TIME.  
USE [0-9] & [ENTER]

5 Select AM or PM by pressing the +/- buttons, and press ENTER.



ON/OFF TIMER

3:15PM .H CH--

SET AM OR PM  
USE [▲▼] & [ENTER]

6 Set the duration of time that you want the TV to remain on, by pressing 1 - 9 and ENTER.



ON/OFF TIMER

3:15PM 2H CH--

SET THE DURATION.  
USE [0-9] & [ENTER]

7 Set the channel that you want the TV to turn on to, by pressing 0 - 9 and ENTER.



ON/OFF TIMER

3:15PM 2H CH 21

SET THE CHANNEL.  
USE [0-9] & [ENTER]

The following screen will appear, showing that the TIMER has been set.

ON/OFF TIMER

3:15PM 2H CH 21

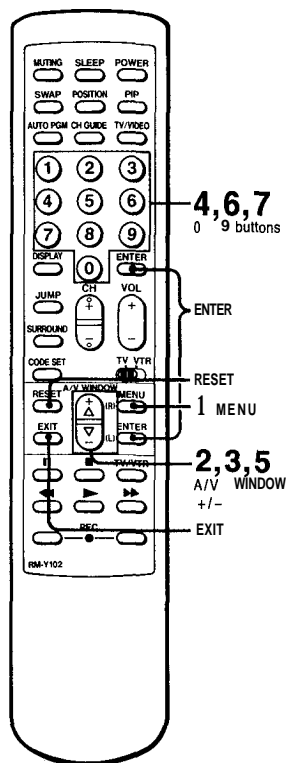
ON/OFF TIMER  
IS SET.

To clear the ON/OFF TIMER setting Press RESET.

To return to TV mode Press EXIT.

### Notes

- While the TIMER is set, the TIMER indicator lamp on the TV will be lit.
- One minute before the timer goes off, the "TV WILL TURN OFF" display will appear on the screen.
- If you have not set the clock correctly, the ON/OFF TIMER will not operate. "Set the CURRENT TIME" to set the clock.
- The TIMER setting will be erased if you unplug the TV, or if a power failure occurs. Repeat steps 1 - 7 to reset the TIMER.

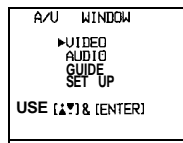


## Setting CHANNEL BLOCK

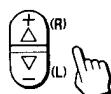
Use this function to block a channel from *appearing* on the screen *during* the preset time, for instance, to prevent children from watching undesirable programs.

EXAMPLE: Set CHANNEL BLOCK at 8:45 PM, for one hour, on channel 38.

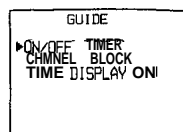
**1** Press MENU to display the following screen



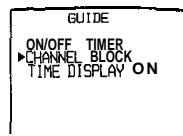
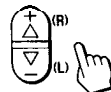
**2** Press the +/- button to select GUIDE.



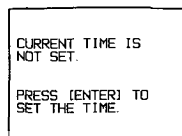
Press ENTER.



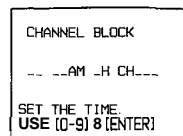
**3** Press the +/- buttons to select CHANNEL BLOCK.



Press ENTER.

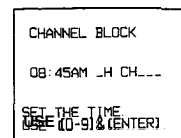
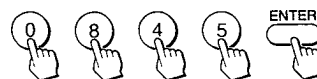


If this screen appears, follow steps 3 - 5. The begin again from step 1 on this page.

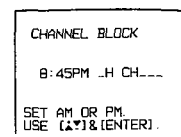
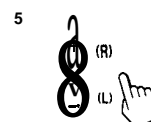


If this screen appears, proceed to step 4 on the next page.

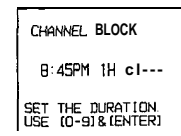
**4** Set the time that you want CHANNEL BLOCK to start by pressing 0 - 9 (you must press 4 digit) and ENTER.



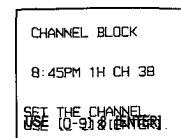
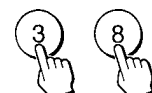
Select AM or PM by pressing the +/- button, and press ENTER.



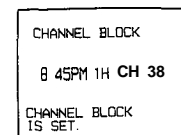
**6** Set the duration of time that you want the TV to remain blocked (UP to 9 hours), by pressing 1 - 9 and ENTER.



**7** Set the channel that you want to block, by pressing 0 - 9 and ENTER.



The following screen will appear, showing that CHANNEL BLOCK has been set.



If you select a channel which has been blocked, the BLOCKED screen will appear.



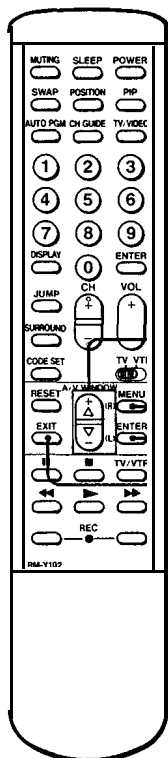
To clear the BLOCK setting Press RESET.

To return to TV mode Press EXIT.

### Notes

• If you set a new CHANNEL BLOCK by following steps 1 - 7, the original setting will be erased.

• If you have no, set the clock correctly. CHANNEL BLOCK will not operate. "Setting the CURRENT TIME" to set the clock.



**-2,3,4**  
A/V WINDOW  
+ / -  
**-1** MENU  
-ENTER  
-EXIT

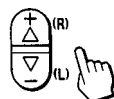
## Setting the TIME DISPLAY

**1** Press MENU to display the following screen



A/V WINDOW  
VIDEO  
AUDIO  
GUIDE  
SET UP  
USE [▲▼] & CENTER

**2** Press the +/- button to select GUIDE.



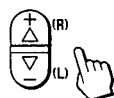
A/V WINDOW  
VIDEO  
AUDIO  
GUIDE  
SET UP  
USE [▲▼] & CENTER

Press ENTER.



GUIDE  
ON/OFF TIMER  
CHANNEL BLOCK  
TIME DISPLAY ON

**3** Press the +/- button and ENTER to select TIME DISPLAY



GUIDE  
ON/OFF TIMER  
CHANNEL BLOCK  
TIME DISPLAY ON

**4** Press the +/- button to select ON or OFF alternately.  
(Display is red)



GUIDE  
ON/OFF TIMER  
CHANNEL BLOCK  
TIME DISPLAY OFF  
USE [▲▼] & [ENTER]

Press ENTER.  
The display will turn green, showing that the mode has been set.



GUIDE  
ON/OFF TIMER  
CHANNEL BLOCK  
TIME DISPLAY ON  
[▲▼] & [ENTER]

GUIDE  
ON/OFF TIMER  
CHANNEL BLOCK  
TIME DISPLAY ON

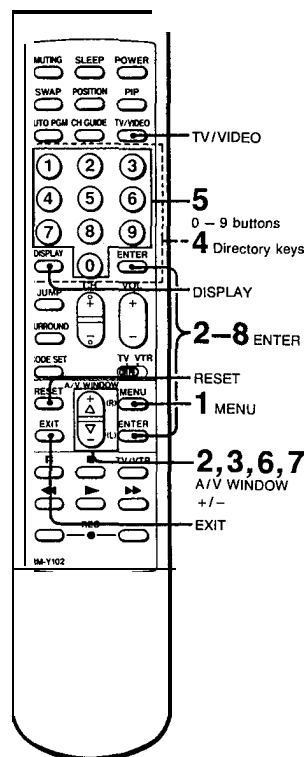
**To return to N mode**  
Press EXIT.

### Notes

- When TIME DISPLAY is set to ON, the time will remain on the screen.
- The menu screens will be cancelled automatically after 10 seconds if you do not push any buttons during that time.



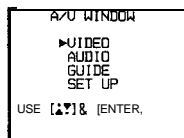
## I-9. USING CHANNEL CAPTION



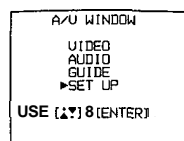
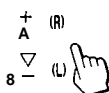
### Captioning the channel display — CHANNEL CAPTION

Use this feature to caption up to 12 channel number displays with the matching channel call letters. For example, caption channel 20 with ESPN.

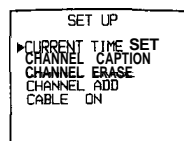
**1** Press MENU to display the following screen



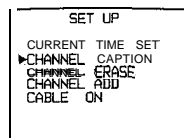
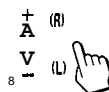
**2** Press the +/- button to select SET UP



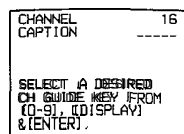
Press ENTER.



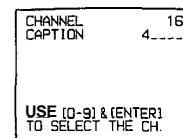
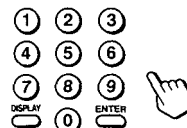
**3** Press the +/- button to select CHANNEL CAPTION.



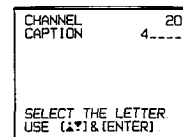
Press ENTER



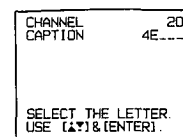
**4** Enter a directory (CHANNEL GUIDE) number for the caption by pressing one of the directory keys. For example, to set caption number 4, press 4.



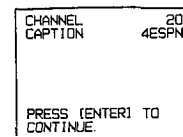
**5** Select the channel you want to caption by pressing 0-9 and ENTER.



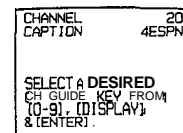
**6** Select the first letter by pressing the +/- button and ENTER. Press + to advance alphabetically; press - to go back.



**7** Select each remaining letter by repeating step 6. (For a 3-letter caption, leave a space by pressing ENTER only.)



**8** To set the next caption, press ENTER again, and repeat the steps from step 4.

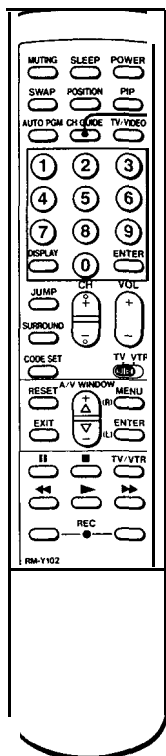


To erase unneeded captions Call the caption setting screen by following steps 1-4, and press RESET.

To return to TV mode Press EXIT.

### Notes

- You cannot use CHANNEL CAPTION while the TV is in VIDEO or S VIDEO mode. Before setting captions, select TV mode by pressing TV/VIDEO.



- 1 CH GUIDE

- 2  
Directory  
keys

## Viewing the captioned channels — CHANNEL GUIDE

Use **this** feature to display the captions you have set, and to select a channel directly for viewing.

**1** Press CH GUIDE.

A directory appears, corresponding to the directory keys on the Remote Commander.

CH GUIDE



CHANNEL GUIDE									
1	ABC	2	DIS	3	CNN				
4	ESPN	5	---	6	---				
7	---	8	---	9	---				
0	---				---				

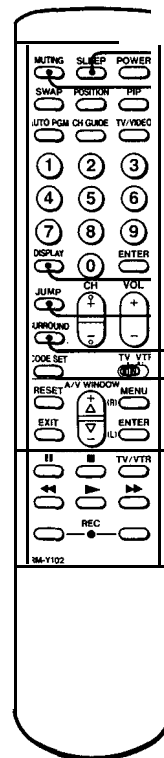
To cancel the CHANNEL GUIDE screen  
Press CH GUIDE again.

**2**

Press the directory key of the channel you want to watch.



## I-10. ENJOYING OTHER USEFUL FEATURES



-SLEEP

-MUTING

-DISPLAY

-JUMP

-SURROUND

## Muting the sound — MUTING

Press MUTING.

The display "MUTING" will appear on the screen.

To restore the sound

Press MUTING again, or press VOL+

MUTING



## Keeping the channel displayed — DISPLAY

To display the channel

Press DISPLAY.

AN the current displays will appear for 3 seconds,  
then disappear. The channel display will remain on  
the screen.

DISPLAY



To cancel the display

Press DISPLAY again.

The channel display will disappear.

## Listening to surround sound — SURROUND

Gives sound reproduction with the atmosphere of a movie theater or a concert hall.

To set

Press SURROUND.

The display "SURROUND" will appear on  
the screen for a few seconds.

To cancel

Press SURROUND again.

The display "SURROUND" will appear for a  
few seconds.

SURROUND



## Using the sleep timer — SLEEP

Turns TV off automatically about 1 hour after setting.

Press SLEEP

A green "SLEEP ON" display appears for a few seconds.

(A red "SLEEP" display will appear 1 minute before the TV shuts off.)

To cancel the setting

Press SLEEP again.

A green "SLEEP OFF" display appears for a few seconds.

O R

Turn the TV off.

The sleep timer setting will be cancelled.

SLEEP



## Switching quickly between 2 channels — JUMP

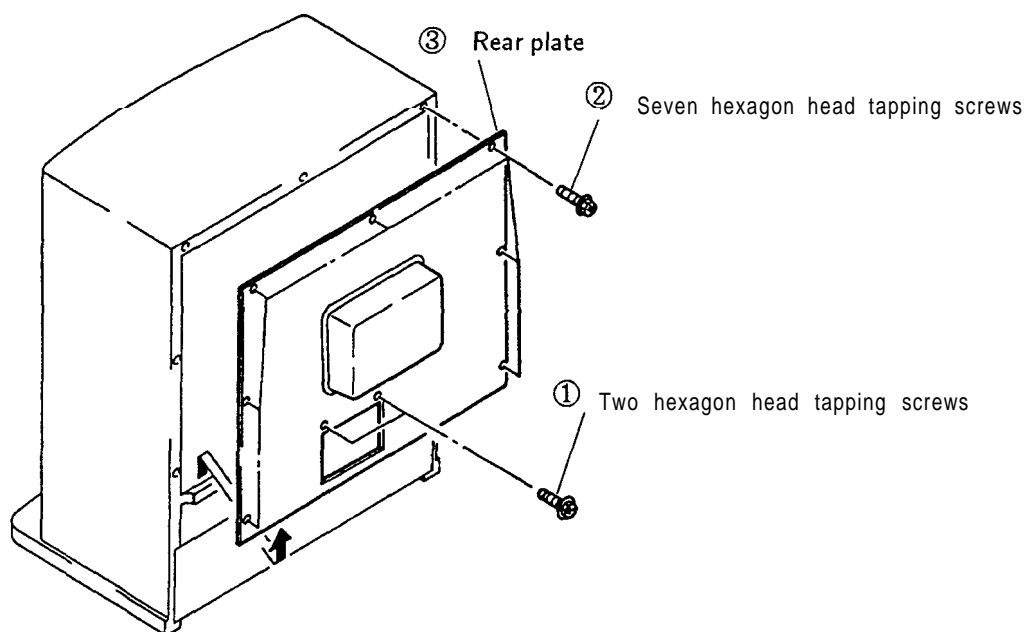
Press JUMP once to recall the channel  
you were watching previously; press  
JUMP again to switch back. Use this  
feature to keep track of two programs  
alternately.

JUMP

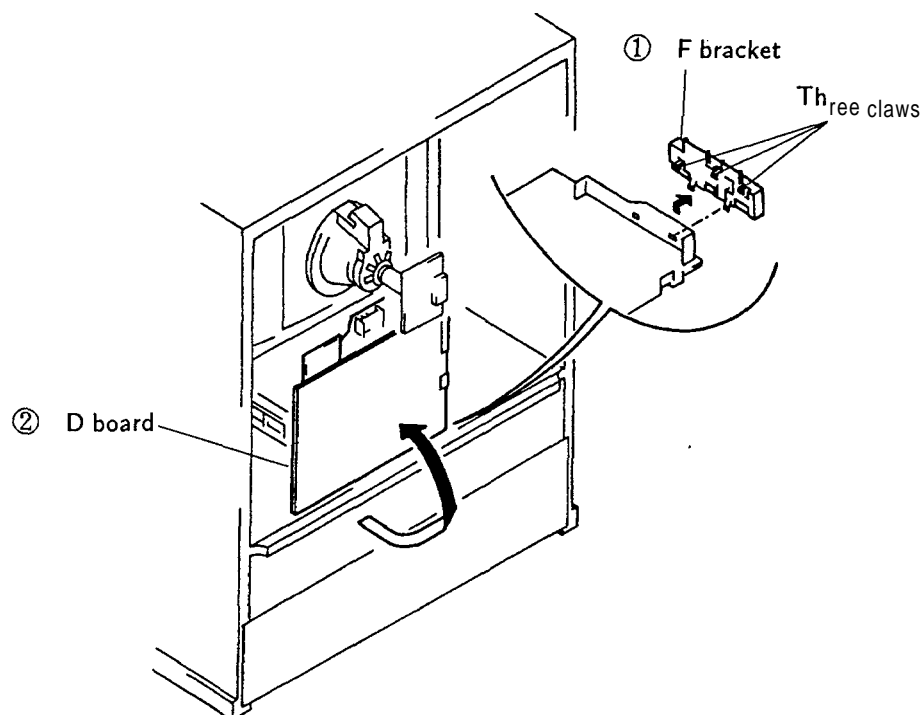


## SECTION 2 DISASSEMBLY

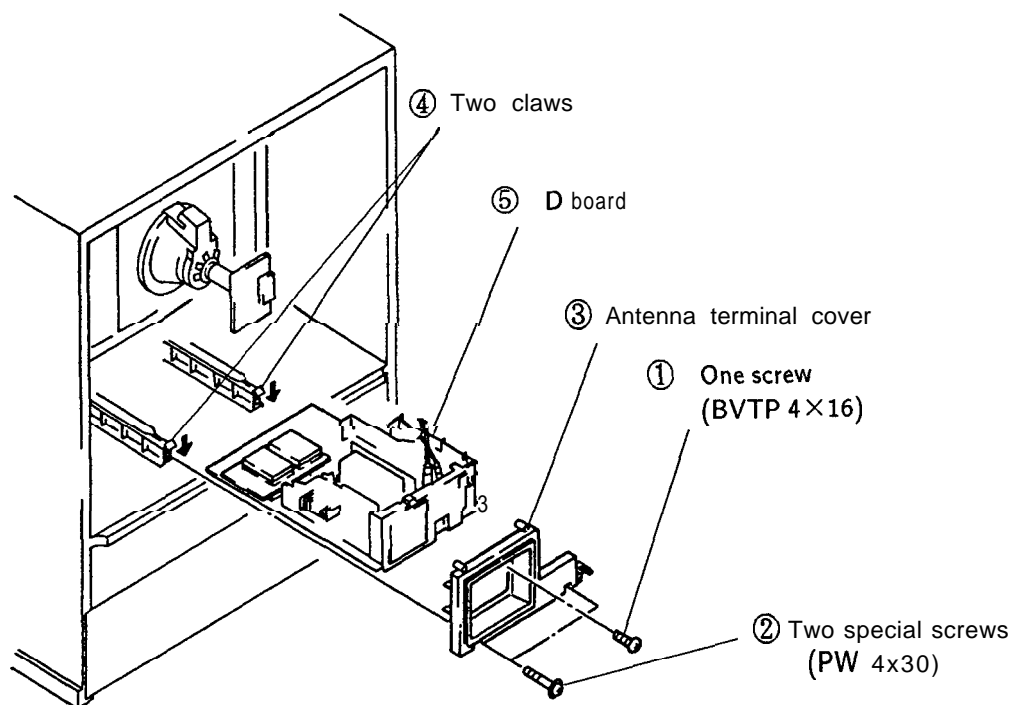
### 2-1. REAR PLATE REMOVAL



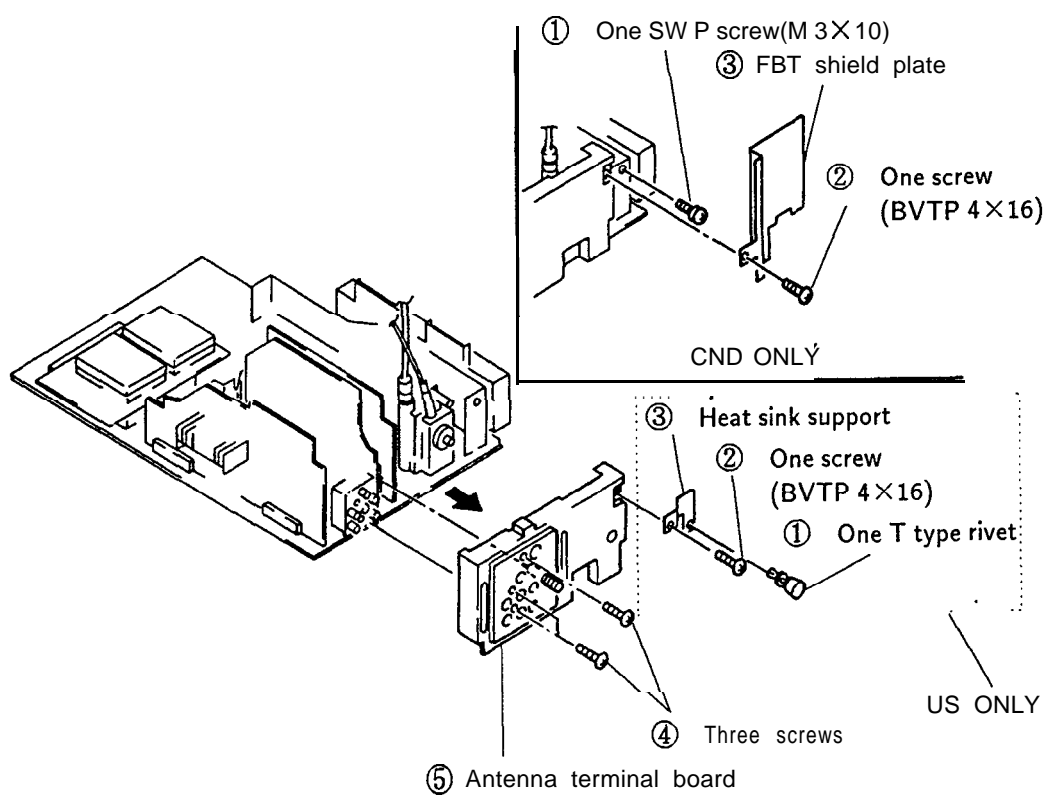
### 2-2. SERVICE POSITION



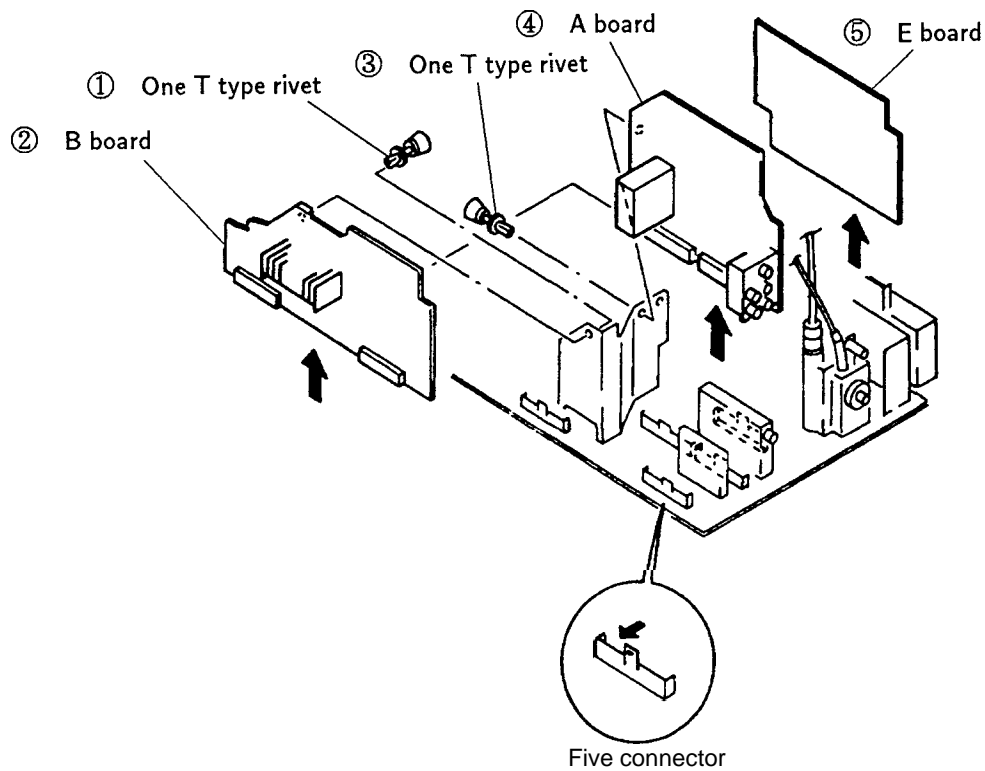
## 2-3. D BOARD REMOVAL



## 2-4. ANTENNA TERMINAL BOARD REMOVAL

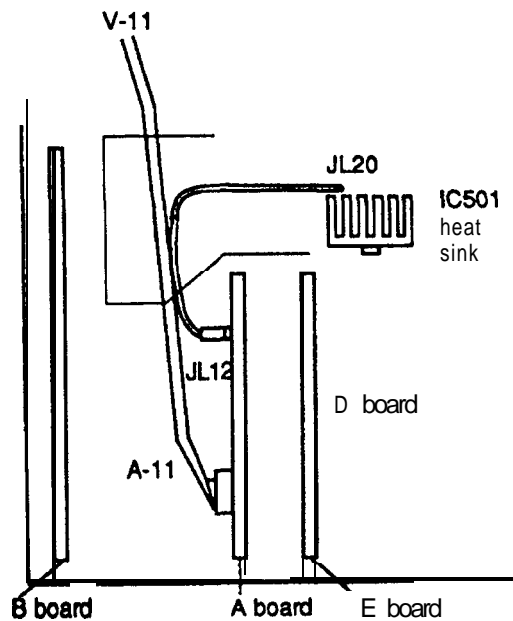


## 2-5. B,A AND E BOARDS REMOVAL



## 2-6. HOW TO IMPROVE INTERLACE

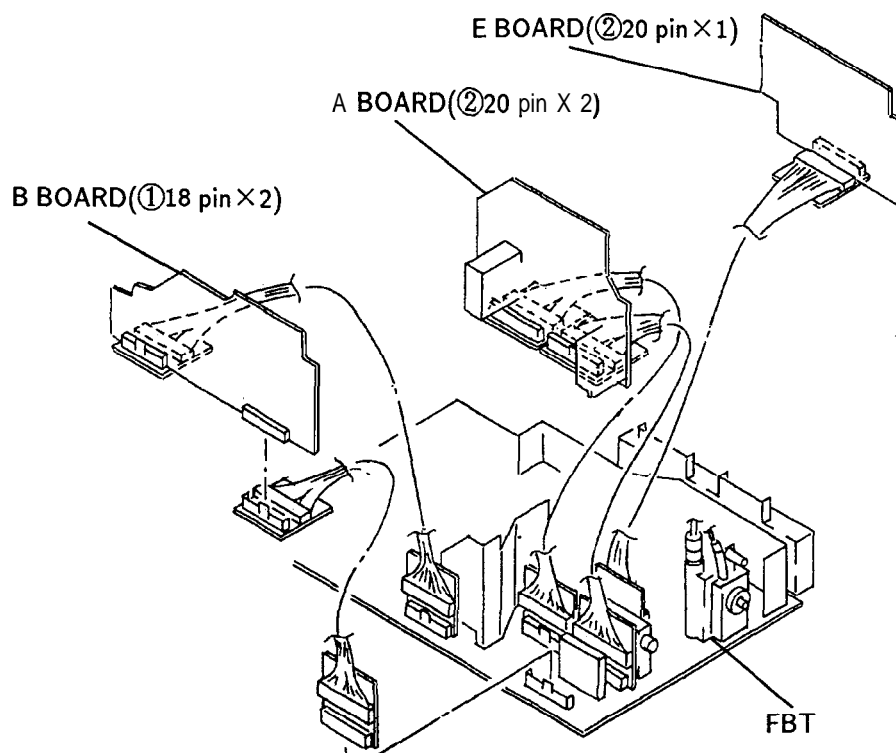
Fastening Jumper Connector Wire between JL 12(A board)and JL 20(D board).



Fasten the wire to eriminate slack between JL 20 and JL 12 with a purse lock.

## 2-7. B,A AND E BOARDS SERVICE POSITION

※ KEEP THE EXTENDED BOARDS FURTHER AWAY FROM FBT TO PREVENT INTERFERENCE.



### EXTENSION CABLES FOR A,B AND E BOARD

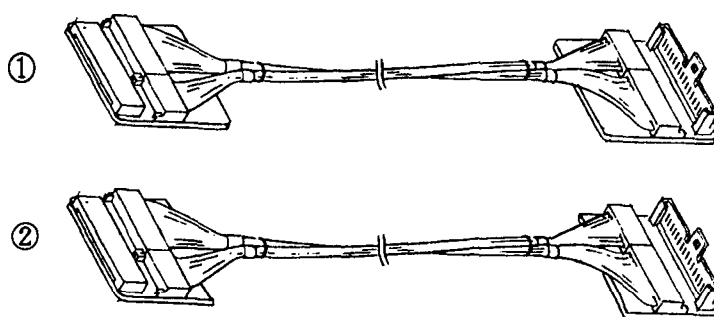
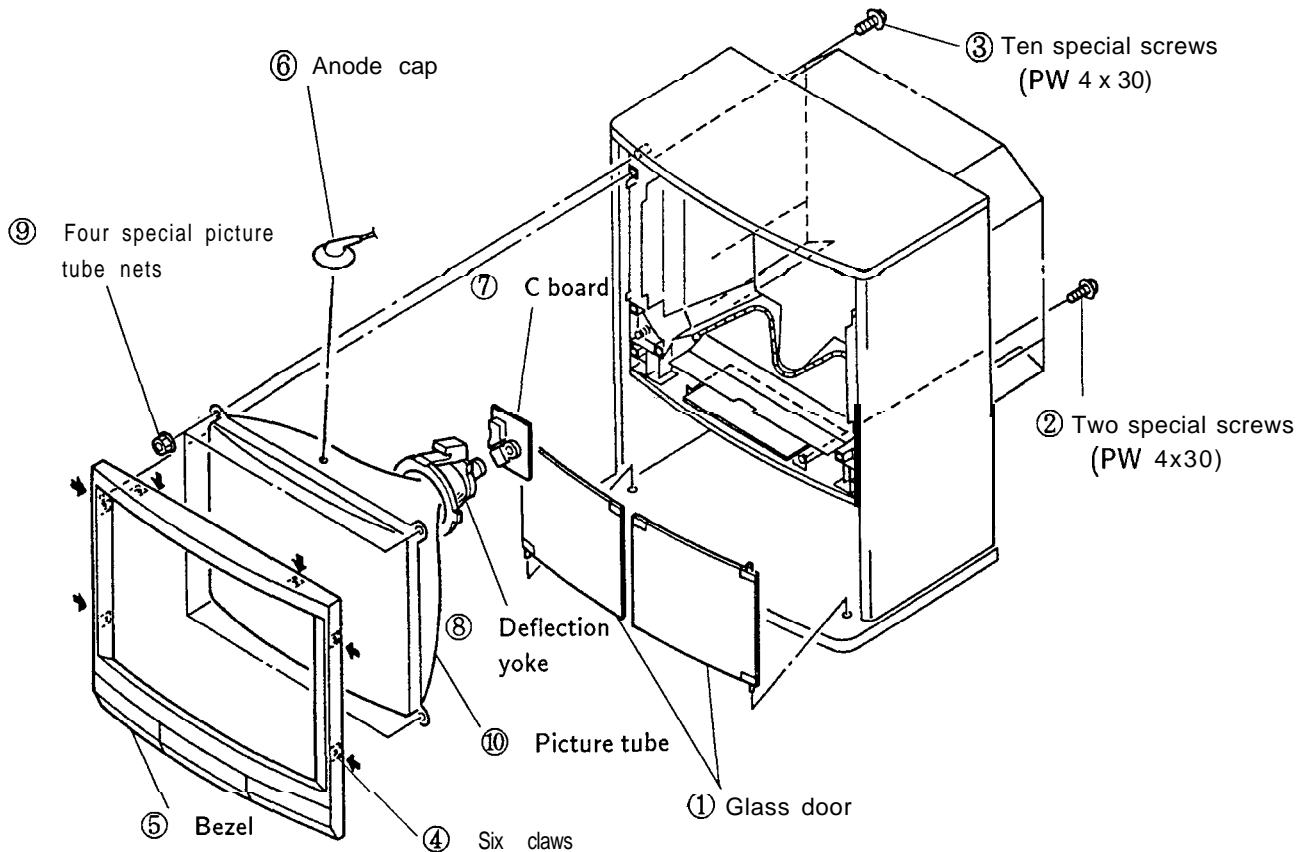


FIG	DISCLIPTION	QTY	USE FOR	PART NO
①	18 PIN-18 PIN(H 1,H 2)	2	B BOARD	3-702-541-01
②	20 PIN-20 PIN(H 3,H 4)	2	A BOARD	3-702-542-01
		1	E BOARD	3-702-542-01

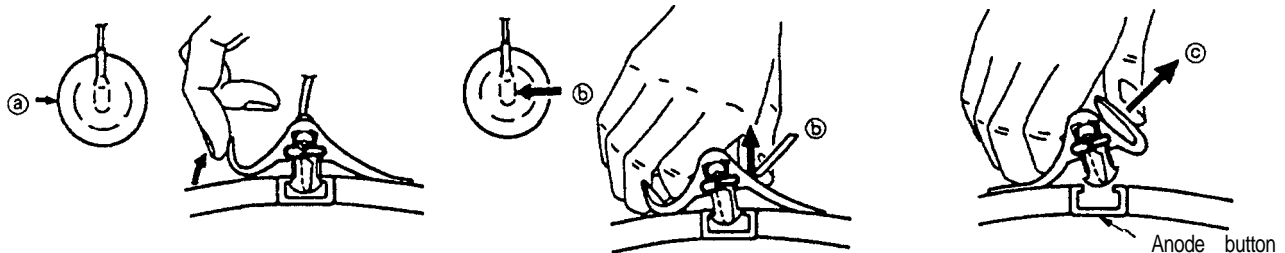
## 2-8. PICTURE TUBE REMOVAL



### • REMOVAL OF ANODE-CAP

NOTE : Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon painted on the CRT, after removing the anode.

### • REMOVING PROCEDURES

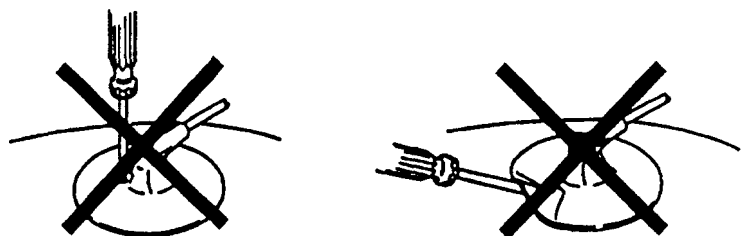


- ① Turn up one side of the rubber cap in the direction indicated by the arrow ①a.
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ②b.

- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ③c.

### • HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps!  
A material fitting called as shutter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly!  
The shutter-hook terminal will stick out or hurt the rubber.



## SECTION 3

### SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switch should be set as follows unless otherwise noted :

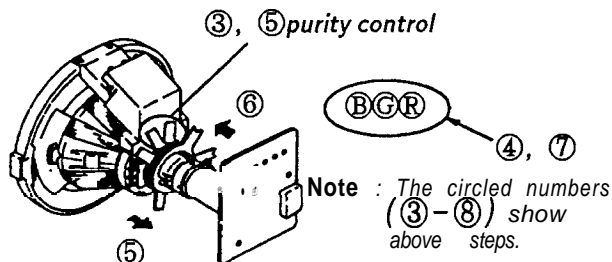
PICTURE control . . . . . RESET

BRIGHTNESS control . . . . . center

#### 3-I. BEAM LANDING

Preparation :

- Feed in the white pattern.
  - Before starting, degauss the entire screen.
1. Turn on set power supply and receive an all-white signal.
  2. Evenly degauss the entire screen.
  3. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Figure 3-1.
  4. Set BKG VR R to maximum and set B and G to minimum.
  5. Move the deflection yoke back, and adjust the purity control so that R is in the center and G and B are at the sides, evenly. (Figure 3-2.)
  6. Move the deflection yoke forward so that the entire screen is red.
    - \* If the deflection yoke is pushed all the way to the CRT then moved slightly back, landing adjustment is easier.
  7. Substitute G, then B for R in step 4 and check landing.
  8. Rotate R, G and B once each and check landing.
  9. When landing is not right, adjust the purity control and use magnets as shown in Figure 3-3. Then repeat steps 7 and 8.
  10. When a magnet is used, be sure to perform step 2, and tighten deflection yoke mounting screw loosely.



Perform the adjustments in order as follows :

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note : Test Equipment Required.

1. Color-bar/Pattern Generator
2. Degausser
3. Oscilloscope

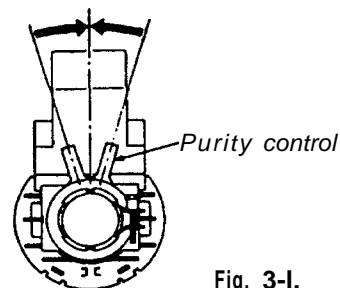


Fig. 3-1.

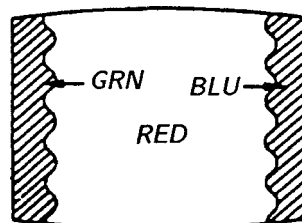


Fig. 3-2.

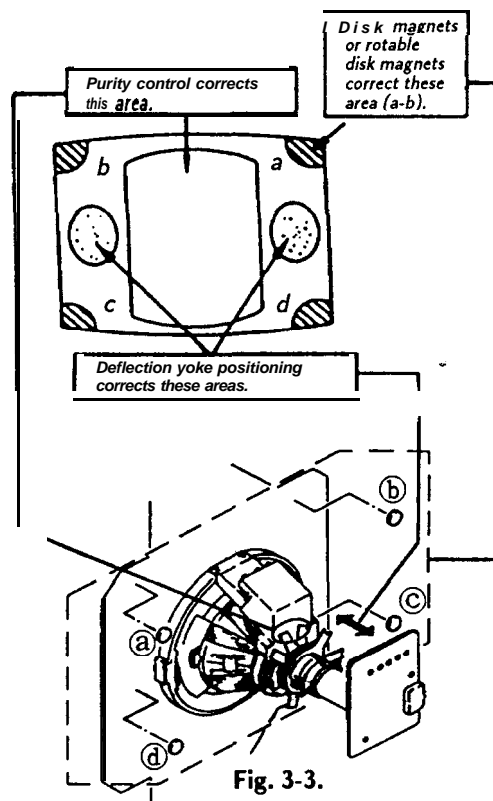


Fig. 3-3.



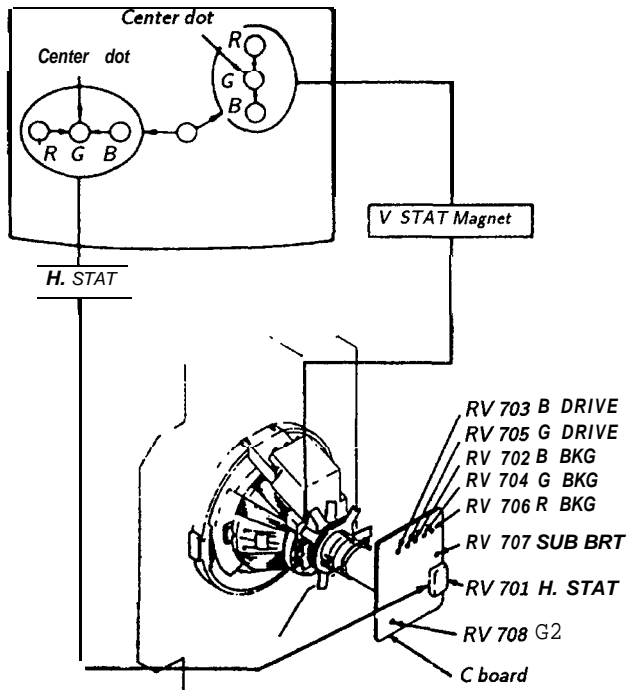
### 3-2. CONVERGENCE

#### Preparation :

- Before starting, perform FOCUS, H. SIZE, V. SIZE and V. LIN adjustments.
- Set BRIGHTNESS control to fully counterclockwise.
- Feed in the dot pattern.

#### (1) Horizontal and Vertical Static Convergence

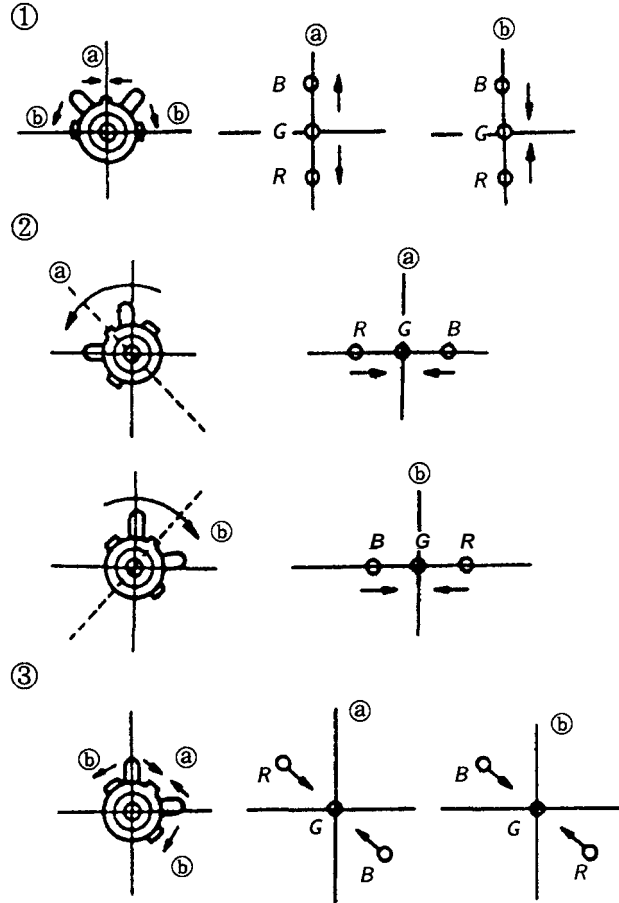
1. Adjust H. STAT VR to coincide red, green and



blue dots on the center of screen (Horizontal movement)

2. Adjust V. STAT magnet to coincide red, green and blue dots on the center of screen (Vertical movement)
3. If the red, green and blue dots do not coincide on the center of screen with H. STAT VR, perform horizontal convergence adjustment using H. STAT VR and V. STAT magnet as shown below. (In this case, H. STAT VR and V. STAT magnet effect each other.)
4. Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.

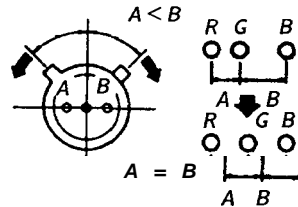
4. When the V. STAT magnet is moved in the direction of arrow (a) and (b). Red, Green and Blue dots move as shown below.



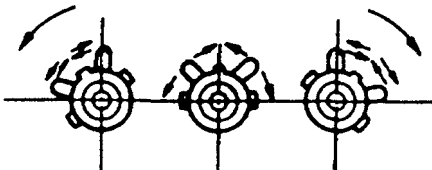
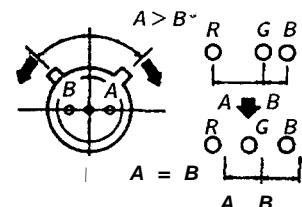
- HMC and VMC correction for Hexapole Magnet.

1. HMC (Horizontal, Mis. convergence) correction and motion of the Electron Beam with the Hexapole Magnet.

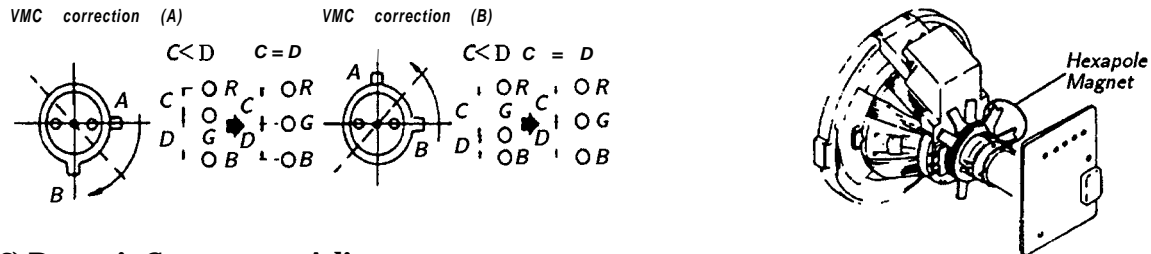
HMC correction (A)



HMC correction (B)



2. VMC (Vertical, Mis. convergence) correction and motion of the Electron Beam with the Hexapole Magnet.



## (2) Dynamic Convergence Adjustment

### Preparation :

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.
1. Loosen deflection yoke screw.
  2. Remove deflection yoke spacers.
  3. Move the deflection yoke for best convergence as shown in Fig. 3-4.
  4. Tighten the deflection yoke screw.
  5. Install the deflection yoke spacers.

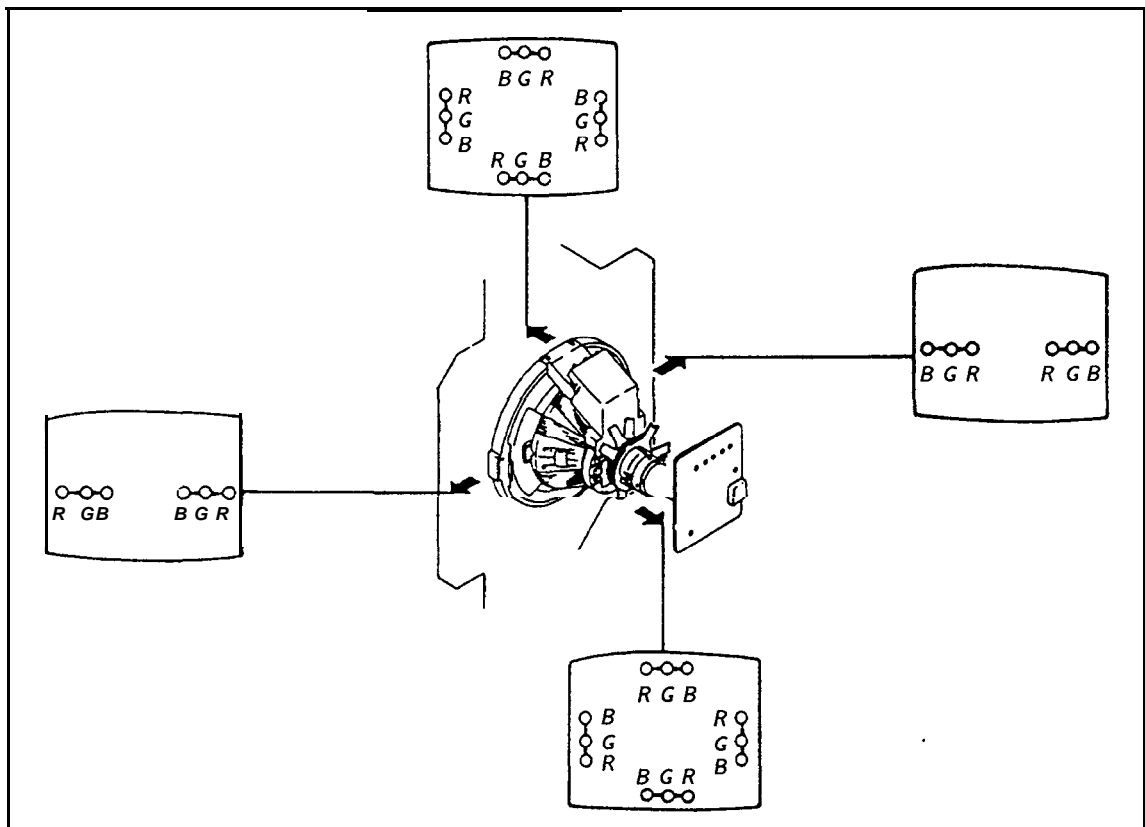
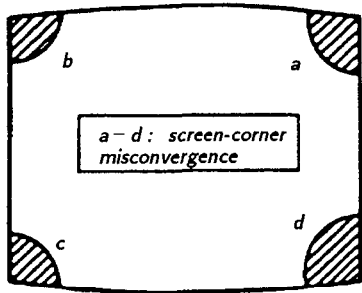


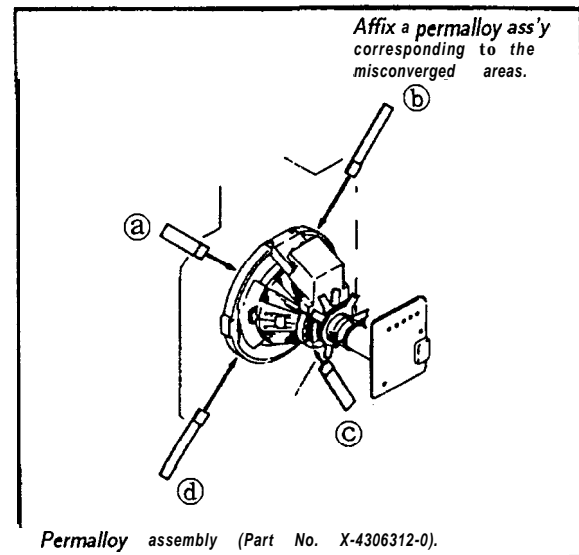
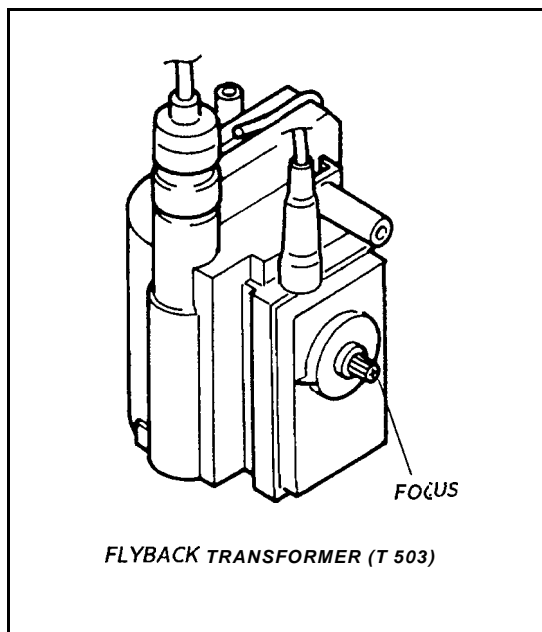
Fig. 3-4.

### (3) Screen-corner Convergence



### 3-3. FOCUS ADJUSTMENT

Adjust FOCUS control on the flyback transformer for a best focus.



### 3-4. WHITE BALANCE

- Input dot signal from pattern generator.
- PICTURE button . . . . . 80%  
BRIGHTNESS control . . . . . click position

[SCREEN (G 2)]

1. Adjust BKG VRs (RV 702, RV 704, and RV 706) so that voltages on the red, green and blue cathodes are 180 V dc with an oscilloscope as shown in Fig. 3-5.

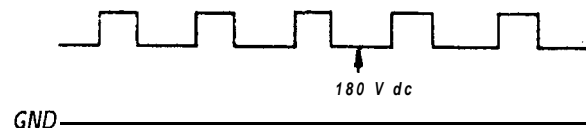


Fig. 3-5.

2. Observe the screen and adjust RV 708 (SCREEN) to obtain the faintly visible background of dot signal. Note the color that first becomes visible by turning SCREEN VR.  
Do not turn a BKG control for this color.

[WHITE BALANCE]

1. Input entirely white signal from pattern generator.
2. Set the PICTURE button to obtain the faintly visible raster on the screen.
3. Observe the screen and adjust the other two BKG VRs for best white balance.
4. Set the PICTURE button at maximum.
5. Observe the screen and adjust the DRIVE VRs (RV 703, RV 705) for best white balance.
6. Repeat steps 2 through 5 several times.

SECTION 4  
SAFETY RELATED ADJUSTMENTS**☒ R542 CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS**

The following adjustments should always be performed when replacing the following components (marked with **☒** on the schematic diagram).

IC601, Q605, Q606, C536, R542, R546, R620, R621, R629, R630, R639, PM501

①

1. Preparation before confirmation

- 1) Remove R620 on the D board and connect a variable resistor (RV1 : about  $20k\Omega$  ) between pin ① of IC601 and B+ line.
- 2) Supply  $120 \pm 2.0V$  AC to with variable auto-transformer.

2. Hold-down operation confirmation

- 1) Turn the POWER switch ON, and receive entirely white signals and adjust ABL current to  $1650 \pm 20 \mu A$  with PICTURE and BRIGHT etc controls.
- 2) Increase B+ line voltage gradually by adjusting the resistor of RV1. Confirm that the minimum voltage is less than  $144.0V$  DC whereby the raster disappears during operation of hold-down circuit.

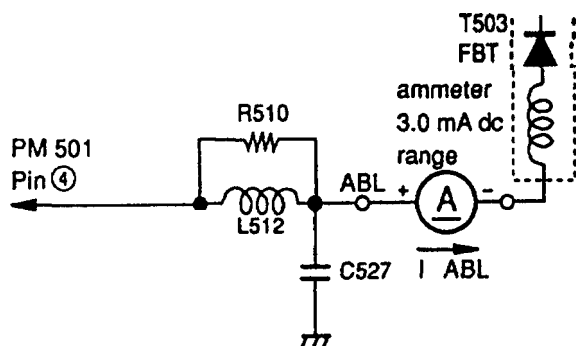
**NOTE:** When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.

- 3) Turn the POWER switch ON, and receive dot signals and adjust ABL current to  $150 \pm 20 \mu A$  with PICTURE and BRIGHT etc controls.
- 4) Increase B+ line voltage gradually by adjusting the resistor of RV1. Confirm that the minimum voltage is less than  $148.0V$  DC whereby the raster disappears during operation of hold-down circuit.

**NOTE :** When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.

3. Hold-down readjustment

When step 2 is not satisfied, readjustment should be performed by altering the resistance value of R542 (a component marked with **☒**).

**☐ R543 CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS**

The following adjustments should always be performed when replacing the following components (marked with **☐** on the schematic diagram).

IC601, Q605, Q606, D507, C535, C536, C639, R520, R543, R546, R620, R621, R629, R630, T503, PM501

②

1. Preparation before confirmation

- 1) Turn the POWER switch ON, and receive entirely white signals and set the PICTURE and BRIGHT controls to maximum.
- 2) Confirm that voltage of the check terminal of pin ① of D-15 is more than  $115.0V$  DC when the set is operating normally with  $120 \pm 2.0V$  AC supply.

2. Hold-down operation confirmation

- 1) Turn the POWER switch ON, and receive entirely white signals and adjust ABL current to  $1650 \pm 20 \mu A$  with PICTURE and BRIGHT etc controls.
- 2) Apply DC voltage of over  $130V$  DC gradually to the check terminal of pin ① of D-15 via 1T40 from the DC stabilized power source. Confirm that the minimum voltage is less than  $140.0V$  DC whereby the raster disappears during operation of hold-down circuit.

**NOTE:** When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.

- 3) Turn the POWER switch ON, and receive dot signals and adjust ABL current to  $150 \pm 20 \mu A$  with PICTURE and BRIGHT etc controls.
- 4) Apply DC voltage of over  $130V$  gradually to the check terminal of pin ① of D-15 via 1T40 from the DC stabilized power source. Confirm that the minimum voltage is less than  $140.5V$  DC whereby the raster disappears during operation of hold-down circuit.

**NOTE :** When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.

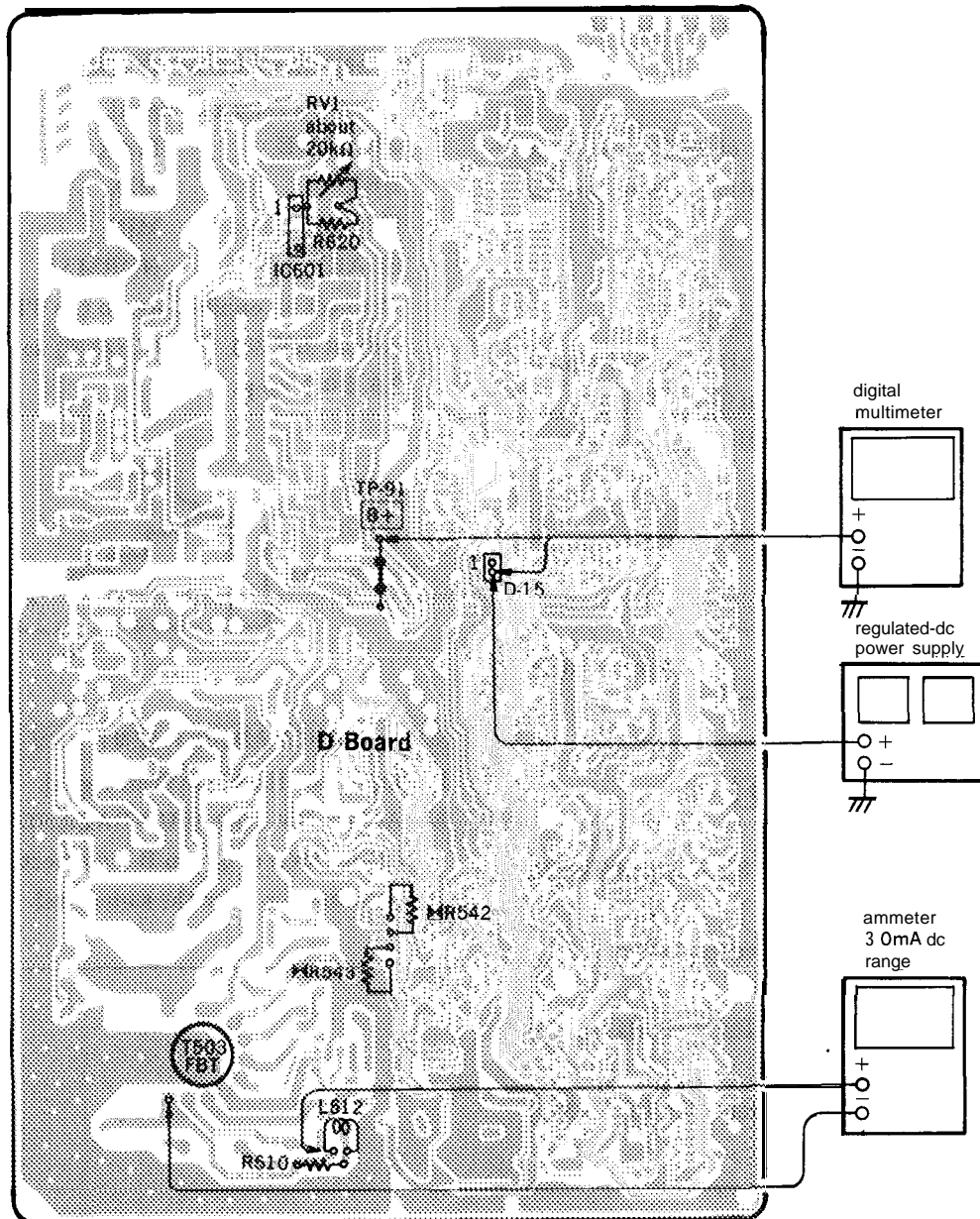
3. Hold-down readjustment

When step 2 is not satisfied, readjustment should be performed by altering the resistance value of R543 (a component marked with **☐**).

**B+ VOLTAGE CONFIRMATION**

The following adjustments should always be performed when replacing IC601 and R620.

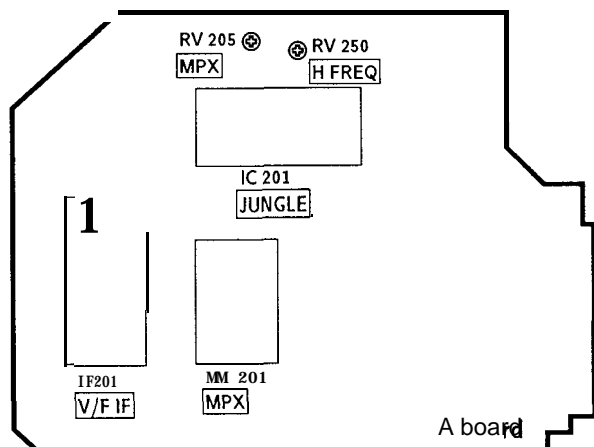
- 1) Supply  $130 \pm 2\%$  V AC to with variable auto-transformer.
- 2) Receive entirely monoscope signal.
- 3) Set the PICTURE control and the BRIGHT controls in to initial reset.
- 4) Confirm the voltage of TP-91 is less than 137.0V DC.
- 5) If step 4) is not satisfied, replace IC601 and R620 repeat above steps.



## SECTION 5

### CIRCUIT ADJUSTMENTS

#### 5-1. A BOARD ADJUSTMENTS

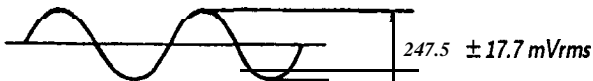


##### RF AGC ADJUSTMENT

1. Receive an off-air signal.
2. Adjust AGC VR (AGC VR of IF' 201) so that snow noise and cross-modulation just disappear from the picture.

##### MPX LEVEL ADJUSTMENT ( RV 201 )

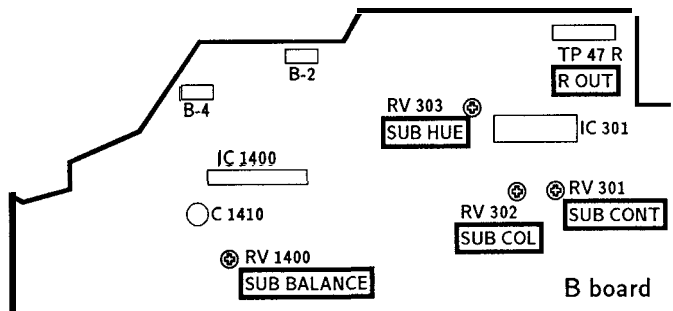
1. Receive 400 Hz (100% modulation) sound signal.
2. Connect an RMS meter to pin ⑪ of MM 201.
3. Adjust RV 201 so that the MPX level is  $247.5 \pm 17.7$  mVrms.



##### H. FREQ ADJUSTMENT ( RV 250 )

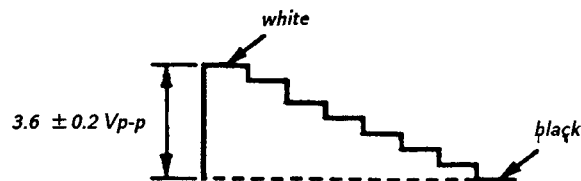
1. Receive an off air signal.
2. Short circuit between TP (Y SYNC) and TP (12 V) with a jumper wire.
3. Connect the frequency counter to pin① of connector A-3.
4. Adjust RV 250 for 15.734 kHz  $\pm$  60 Hz on the frequency counter.
5. Disconnect a jumper wire from TP (Y SYNC) and TP (12 V).

#### 5-2. B BOARD ADJUSTMENTS



##### SUB CONTRAST ADJUSTMENT ( RV 301 )

1. Receive a color-bar signal.  
 PICTURE MAX  
 BRT MIN  
 C O L O R MIN  
 S H A R P NORMAL
2. Connect an oscilloscope to the TP 47 R(R OUT).
3. Adjust RV 301 (SUB CONT) so that voltage is  $3.6 \pm 0.2$  Vp-p.

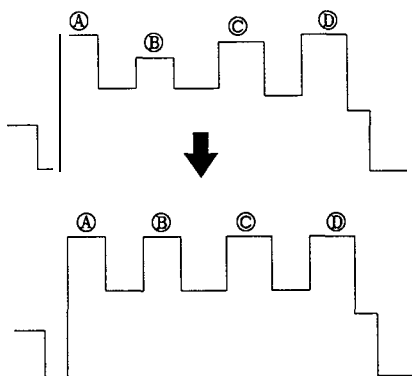


##### SUB BALANCE ADJUSTMENT (RV 1400)

1. Input 400 Hz 200 mVrms signal.
2. Adjust RV 1400 (SUB-BALANCE) so that the output level of ② pin B-4 connector and ① pin B-2 connector to be the same level.

### SUB COLOR AND SUB HUE ADJUSTMENTS (RV 302,303)

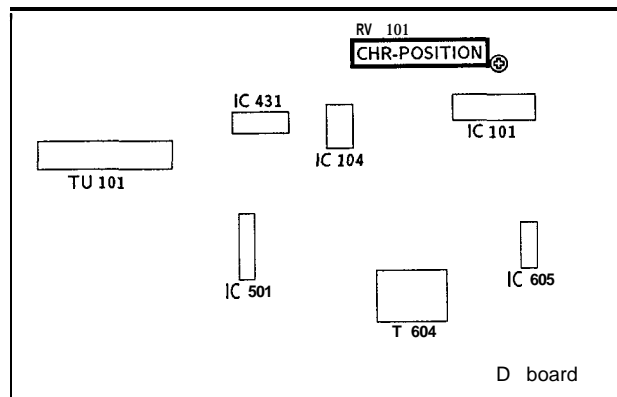
1. Receive a color bar signal.
2. Set PICTURE and BRT to normal.
3. Connect an oscilloscope to the TP 47 R (B OUT).
4. Adjust RV 302(SUB-COL)and RV 303 (SUB-HUE) to be the same level.



$$\textcircled{A}=\textcircled{D}$$

$$\textcircled{B}=\textcircled{C}$$

### 5-3. D BOARD ADJUSTMENTS



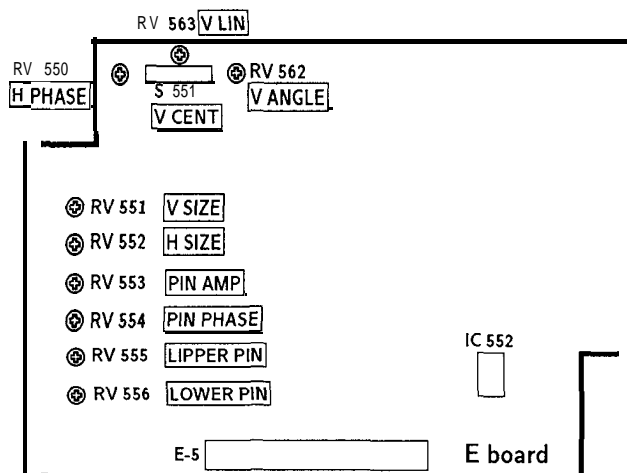
#### [CHARACTER POSITION (RV 101)]

1. Receive a color-bar signal.
2. Set the PICTURE control to maximum setting and set the BRIGHTNESS control to center click position.
3. Press the PICTURE control button until this picture level becomes maximum.
4. Adjust RV 101 as shown in Fig. 1.



Fig. 1

## 5-4. E BOARD ADJUSTMENTS



### H. PHASE (HORIZONTAL PHASE) (RV550)



### H. SIZE (HORIZONTAL SIZE) (RV552)



### V. CENT (VERTICAL CENTER) (S551)



### V. SIZE (VERTICAL SIZE) (RV551)



### V. ANGLE (VERTICAL ANGLE) (RV562)



### PIN. AMP (PINCUSHION AMPLIFIER) (RV553)



### PIN. PHASE (PINCUSHION PHASE) (RV554)



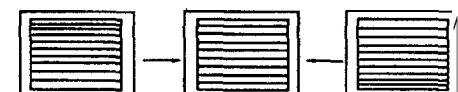
### PIN. COR (PINCUSHION CORRECT) (RV555)



### CORNER. COR (CORNER CORRECT) (RV556)



### V. LIN (VERTICAL LINEARITY) (RV 563)





# SECTION 6 DIAGRAMS

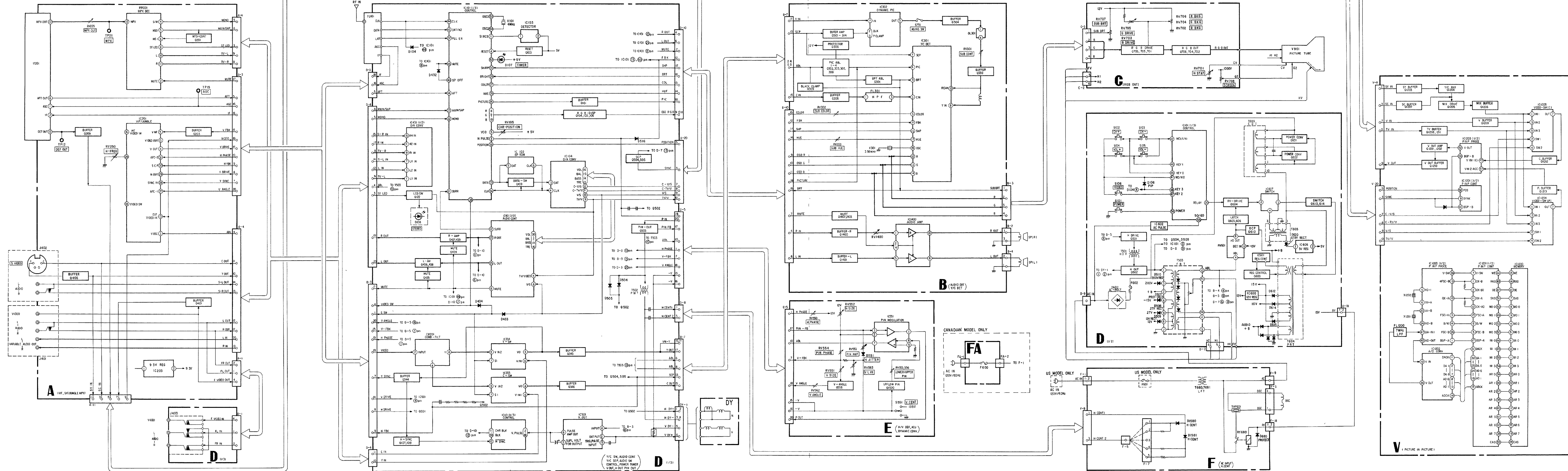
## 6-1. BLOCK DIAGRAM

KV-27TW75/27TW76  
RM-Y102

KV-27TW75/27TW76  
RM-Y102

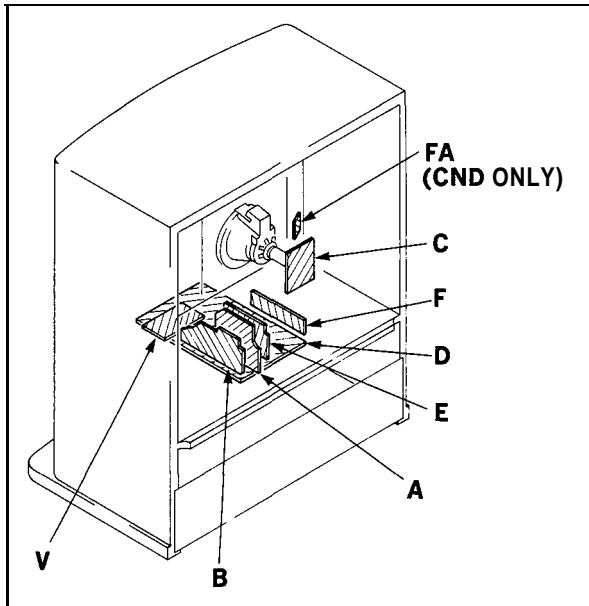
KV-27TW75/27TW76  
RM-Y102

KV-27TW75/27TW76  
RM-Y102





## 6-2. CIRCUIT BOARDS LOCATION



## 6-3. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

## Note:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\mu\text{F}$ :  $\mu\mu\text{F}$  50WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm  
Rating electrical power 1/4W

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved.  
(Refer to R542 and R543 on page 28-30 in the Service Manual.)
- When replacing the part in below table be sure to perform the related adjustment.

Part replaced (  )	Adjustment (  )
IC601, PM501, Q605, Q606, C536, R639, R630, R629, R621, R620, R546, R542,	R542 (HOLD-DOWN)
IC601, PM501, Q606, Q605, D507, T503, C639, C536, C535, R630, R629, R621, R620, R543, R546, R520	R543 (HOLD-DOWN)

- All voltages are in V
- Voltage measured with respect to ground unless otherwise noted
- Readings are taken with a 4 0 M $\Omega$  digital multimeter
- Readings are taken with a color-bar signal input
- Voltage variations may be noted due to normal production tolerance
- B+ bus
- signal path

## Reference information

RESISTOR	: RN METAL FILM
	: RC SOLID
	: FPRD NONFLAMMABLE CARBON
	: FUSE NONFLAMMABLE FUSIBLE
	: RW NONFLAMMABLE WIREWOUND
	: RS NONFLAMMABLE METAL OXIDE
	: RB NONFLAMMABLE CEMENT
COIL	: LF-8L MICRO INDUCTOR
CAPACITOR	: TA TANTALUM
	: PS STYROL
	: PP POLYPROPYLENE
	: PT MYLAR
	: MPS METALIZED POLYESTER
	: MPP METALIZED POLYPROPYLENE
	: ALB BIPOLAR
	: ALT HIGH TEMPERATURE
	: ALR HIGH RIPPLE

## Note:

The components identified by shading and mark are critical for safety. Replace only with part number specified.

## Note:

Les composants identifiés par un tramé et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

**A**

[JUNGLE, VIF/SIF, MPX]

**E**

[H/V DEF. ADJ.]

**B**

[Y/C → RGB AUDIO OUT]

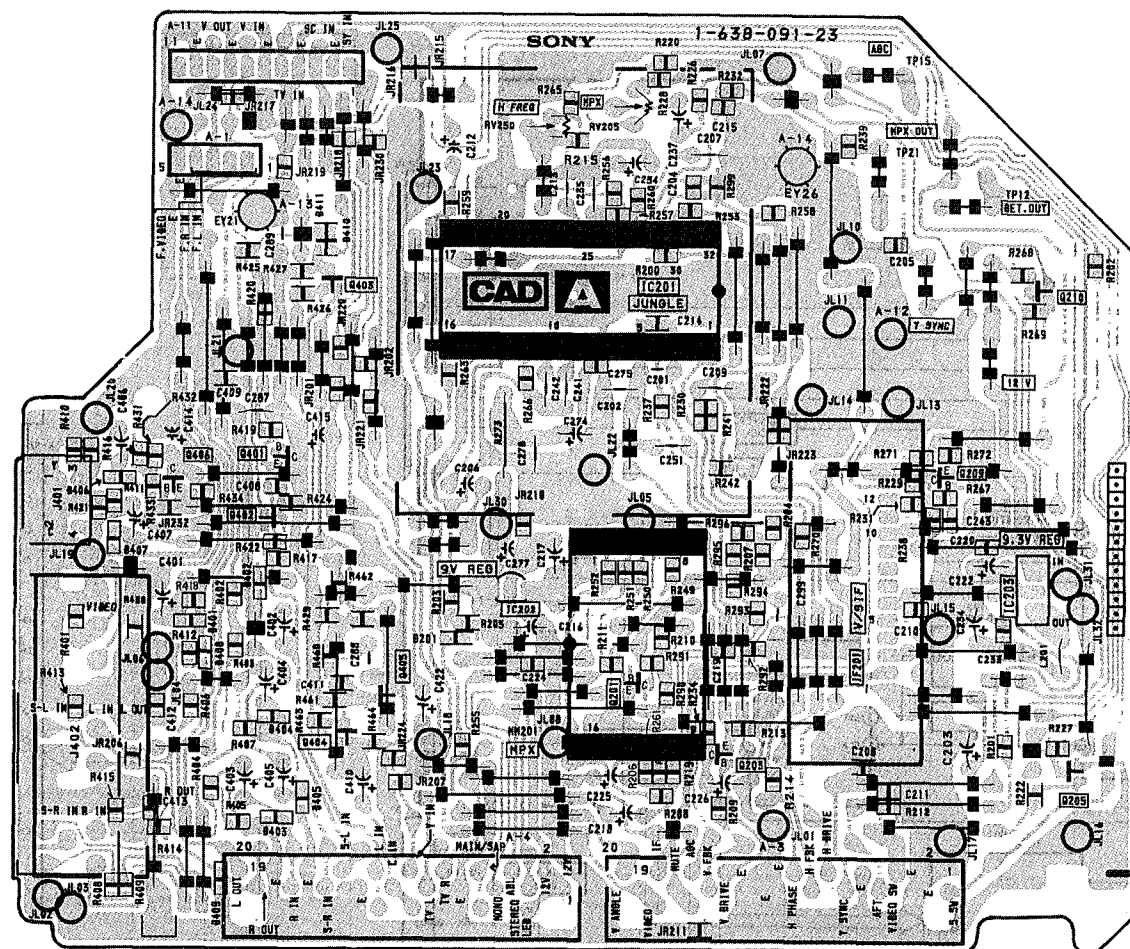
**F**

[AC INPUT H. CENT]

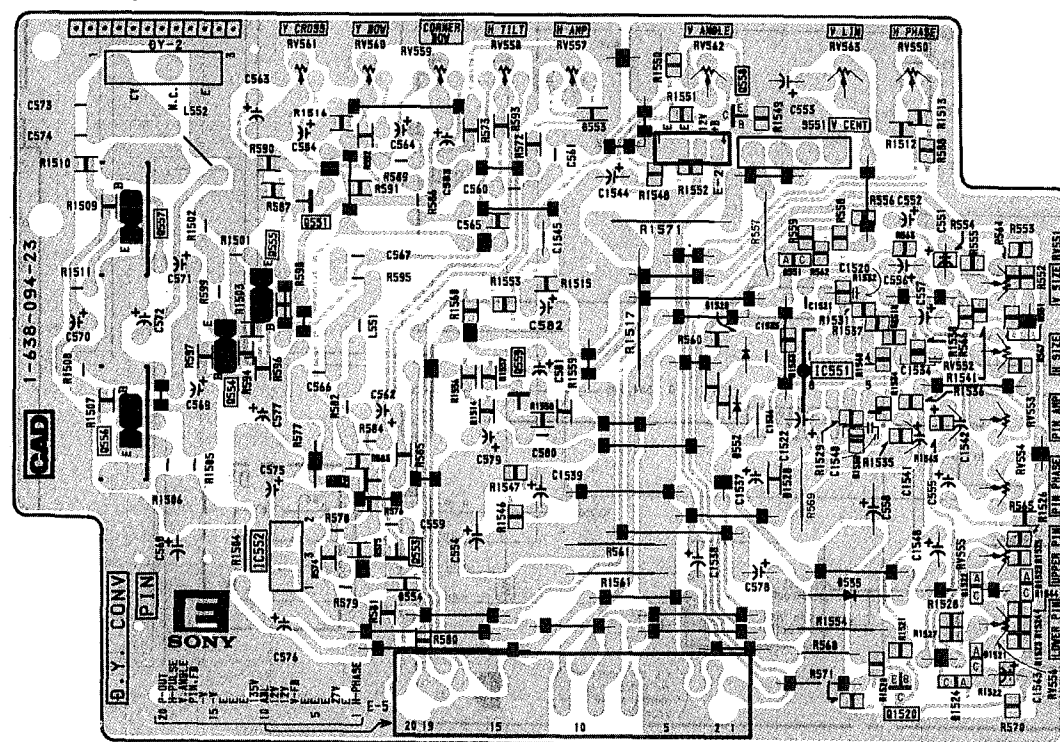
**FA**

[AC OUTPUT]

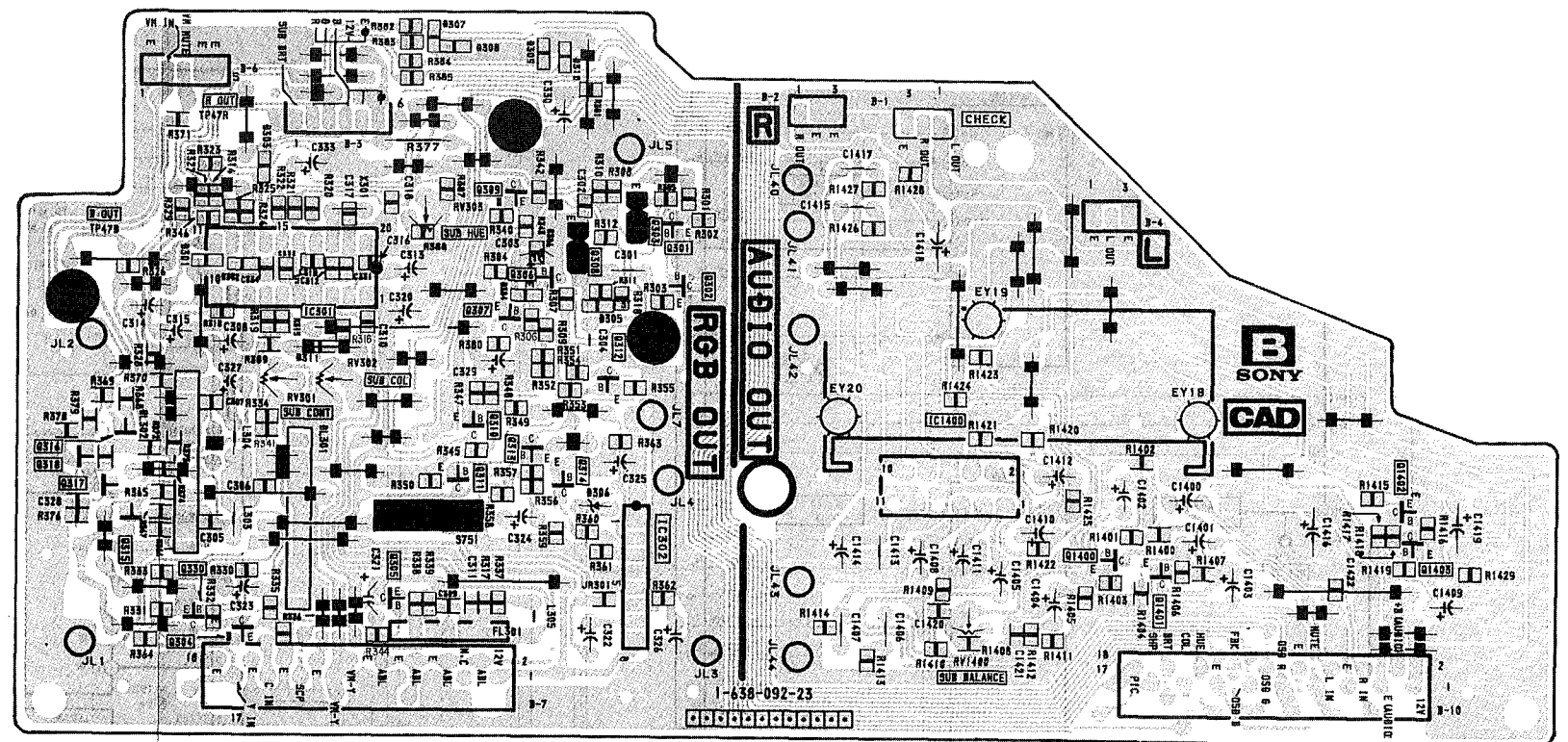
— A Board —



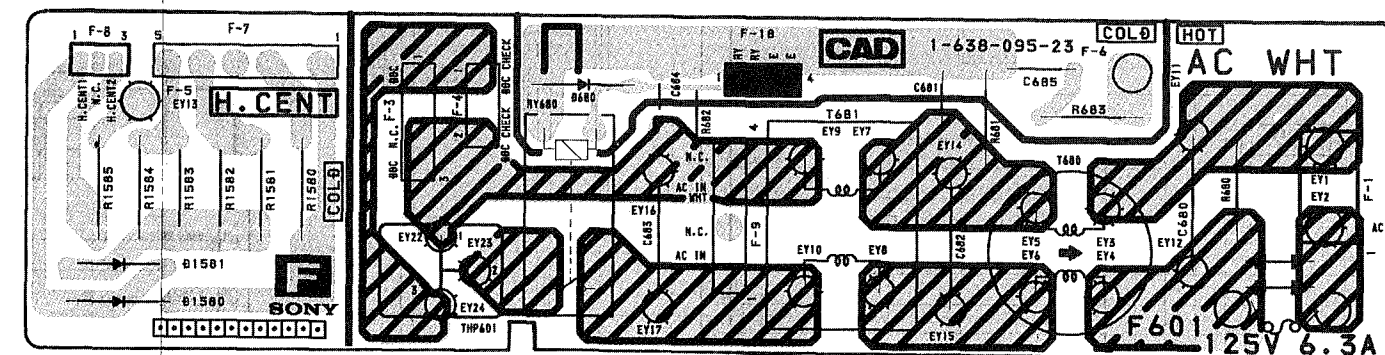
— E Board —



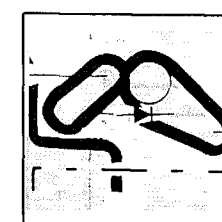
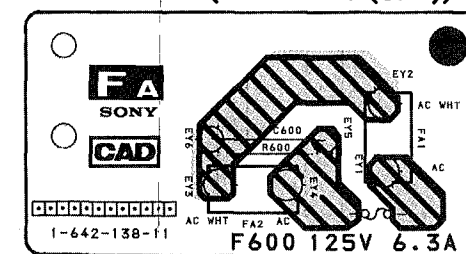
— B Board —



— F Board —



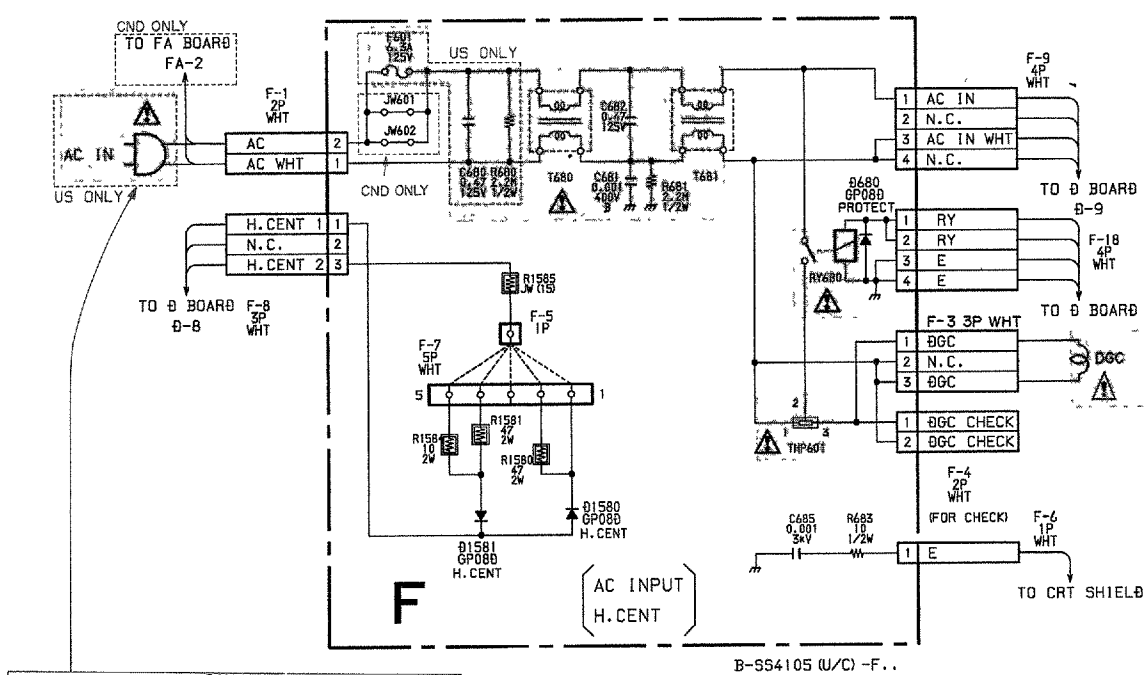
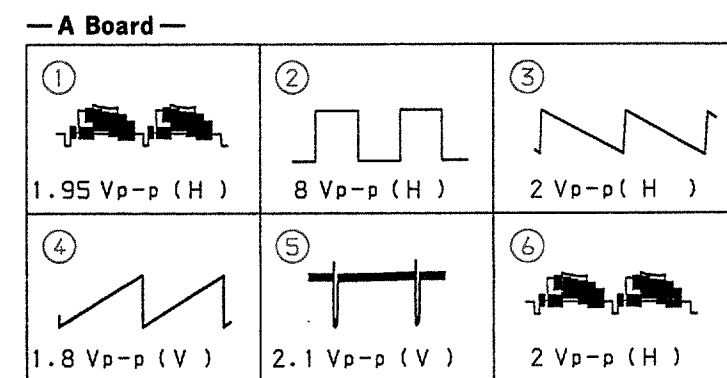
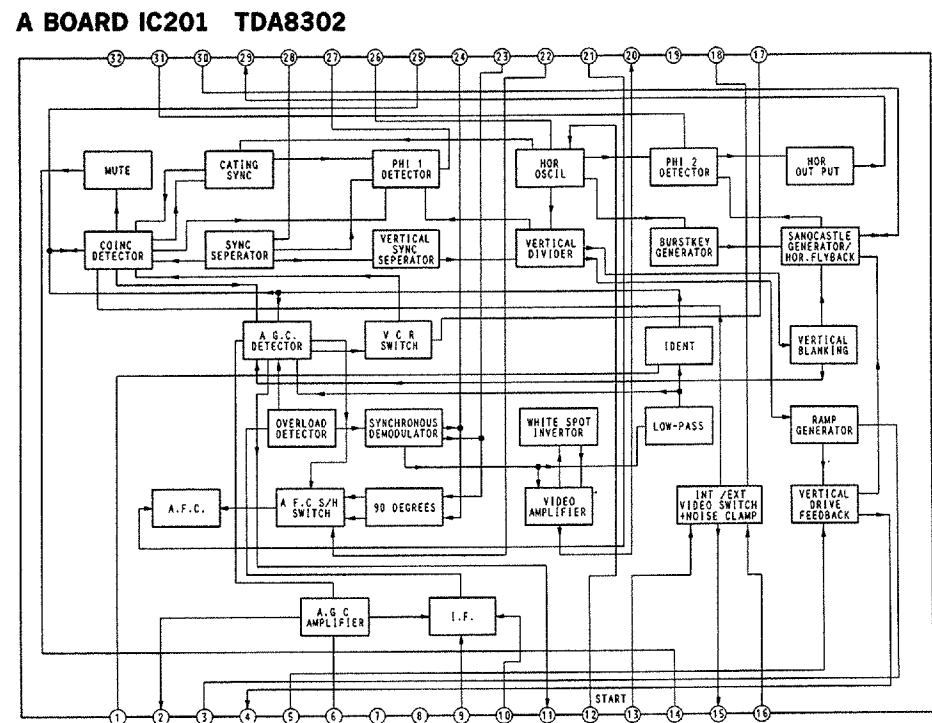
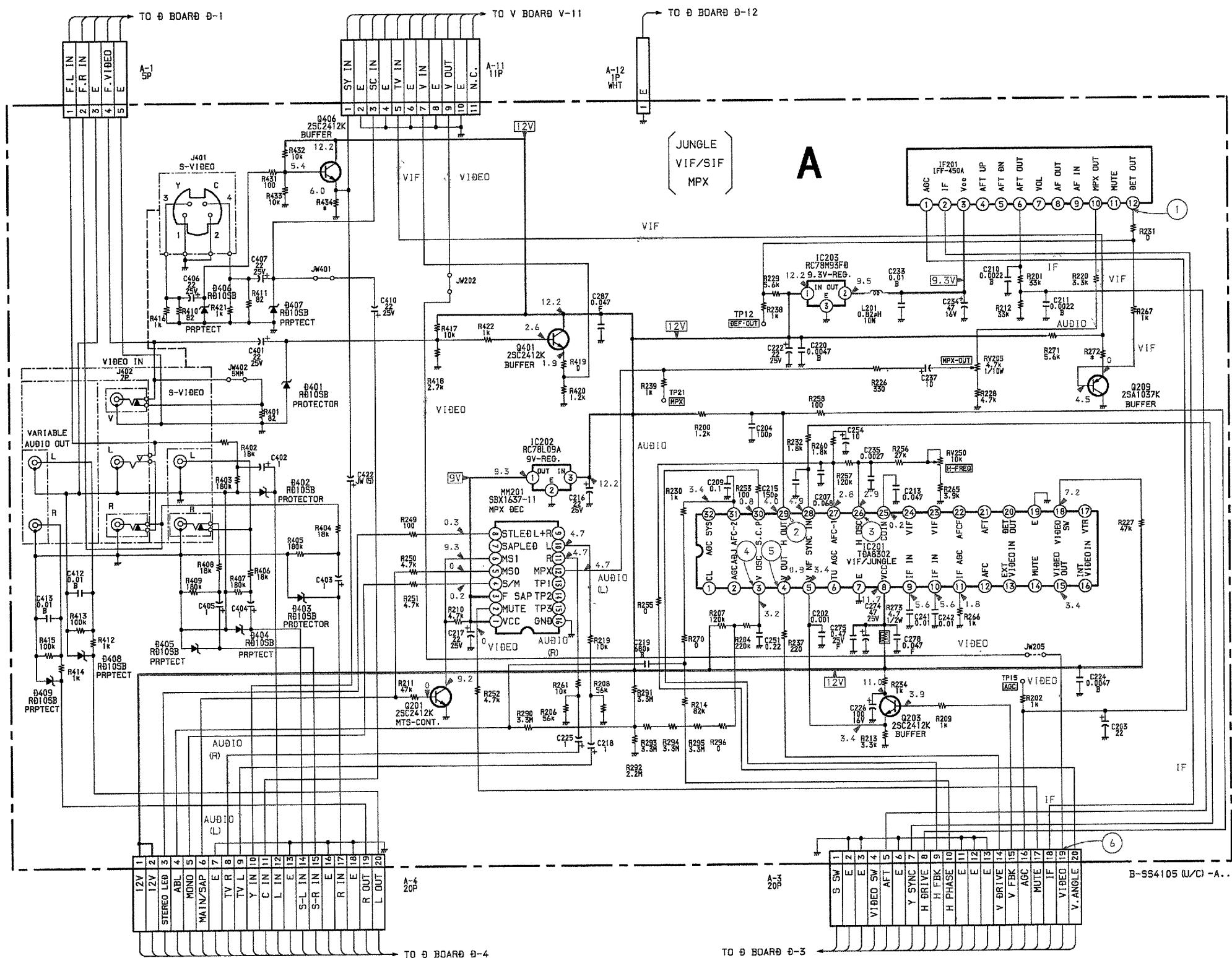
— FA Board — (KV-27TW75 (CND))

**NOTE:**

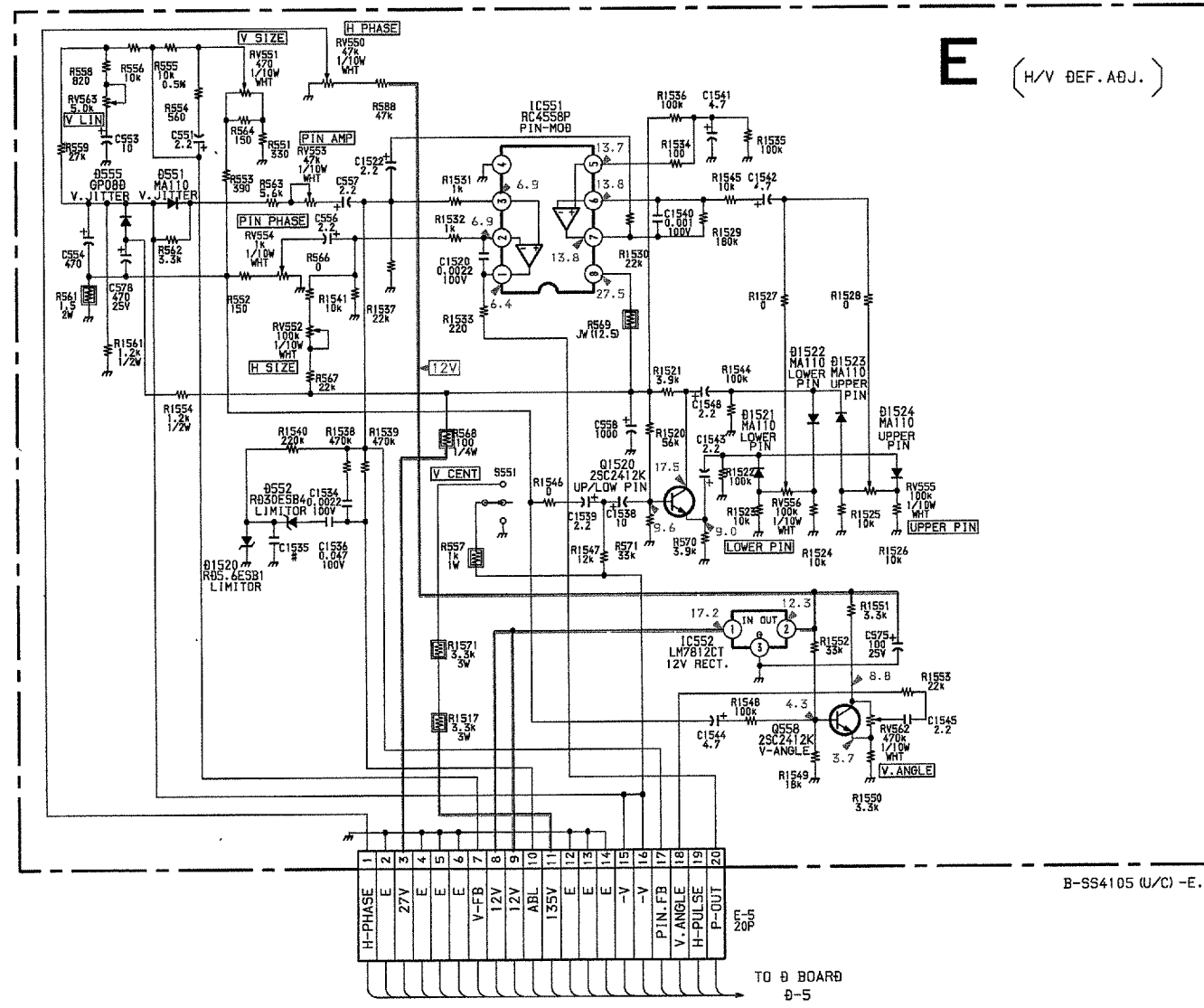
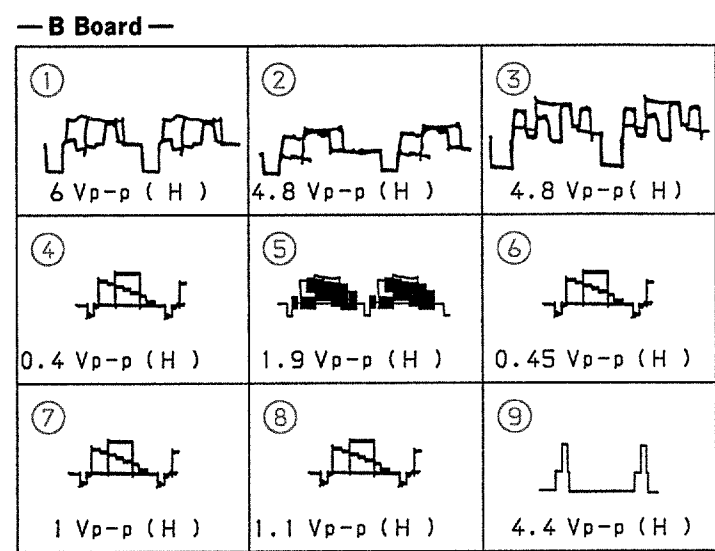
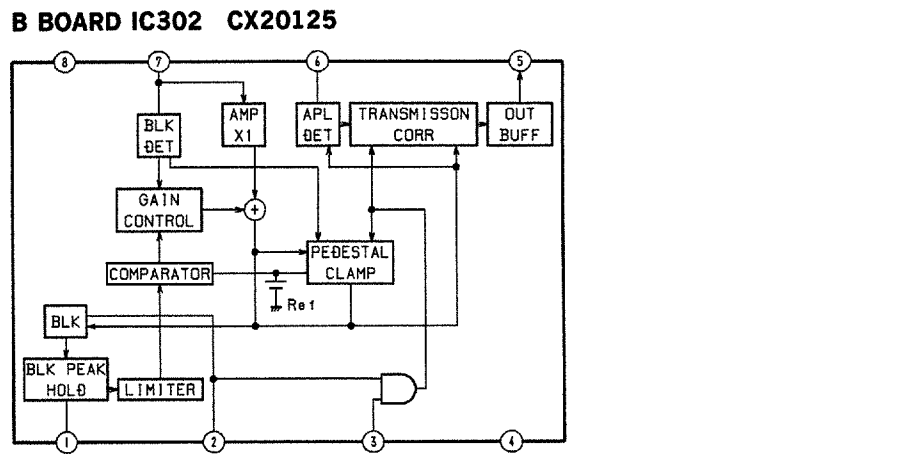
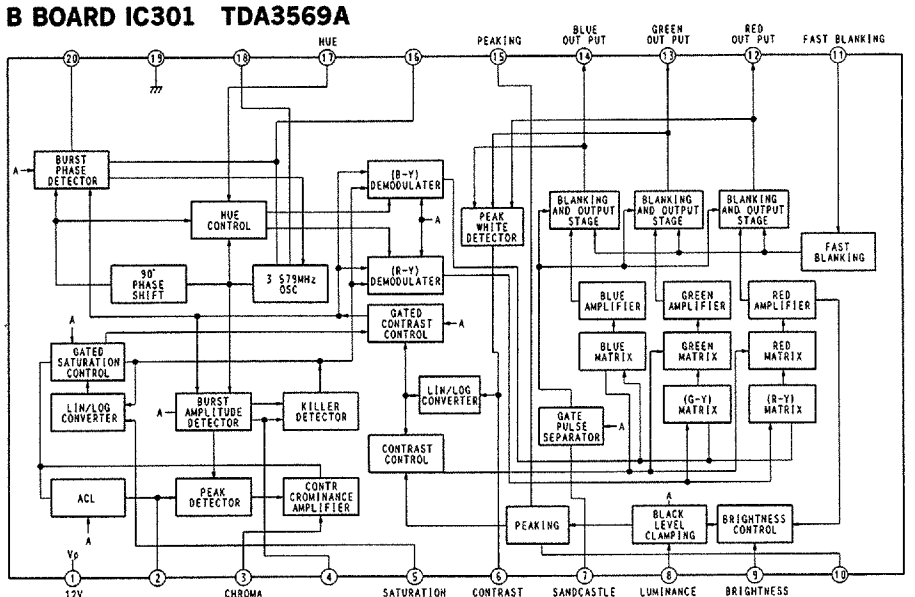
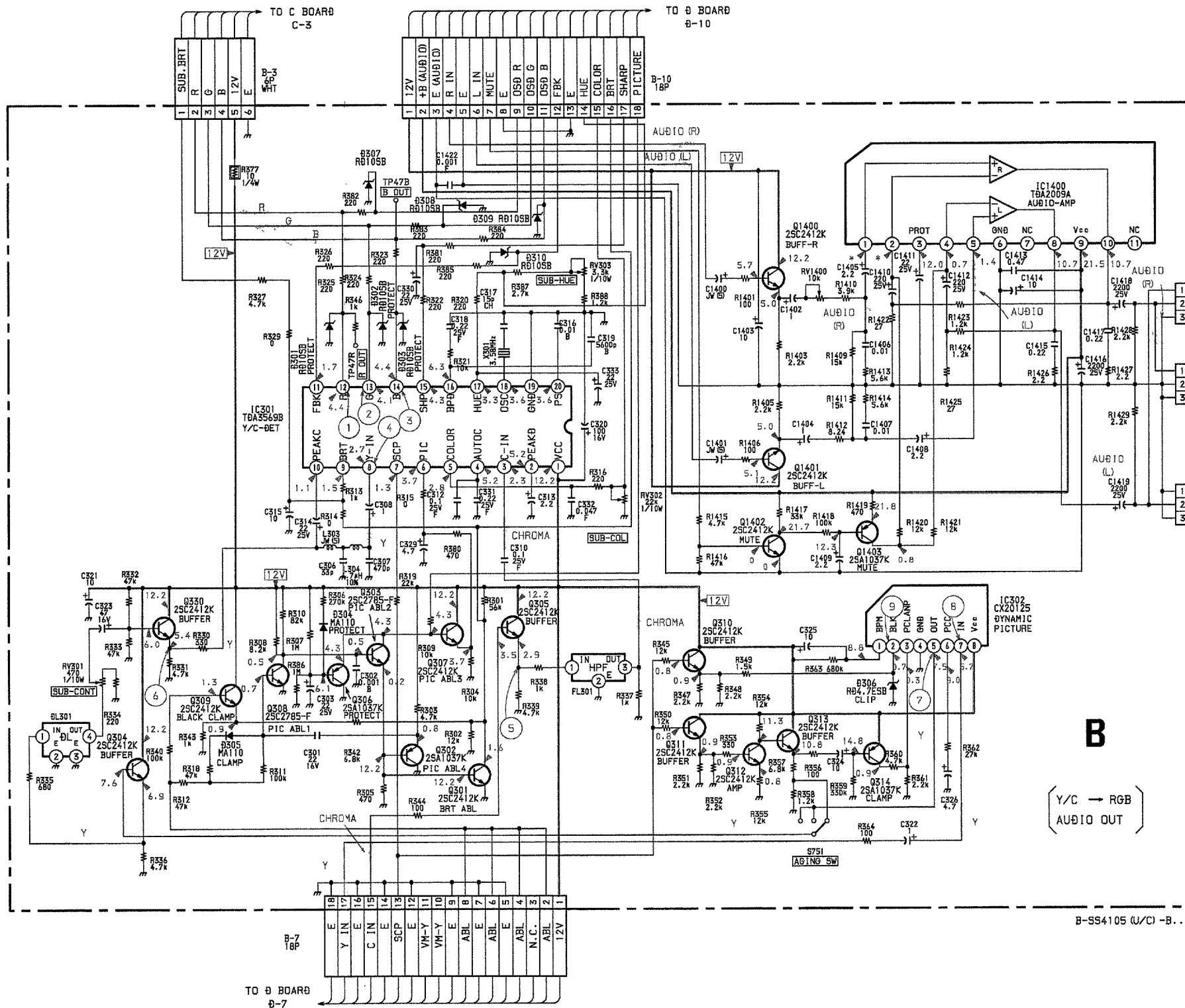
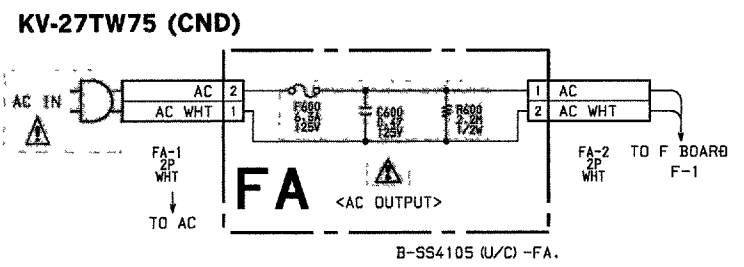
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.



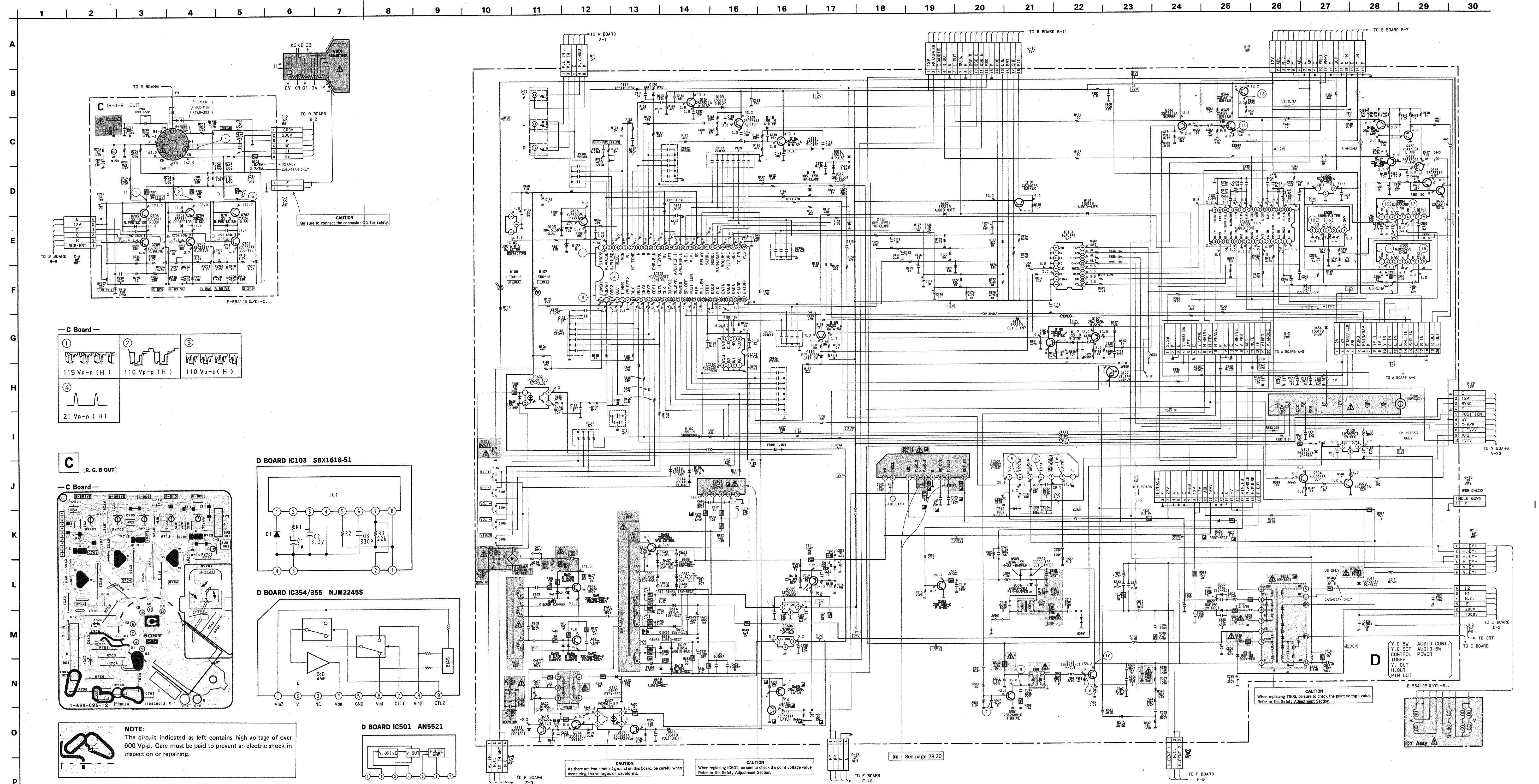
A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P



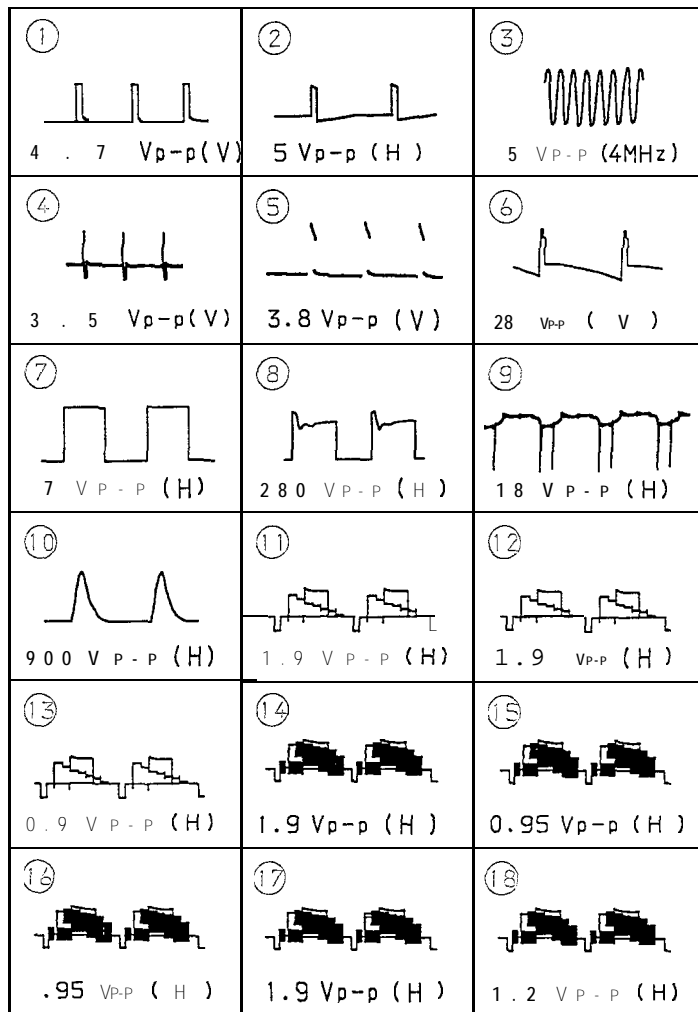
CAUTION  
This set is equipped with a polarized ac power cord plug (one blade of the plug is wider than the other). When replacing the ac power cord, be sure to connect it with specified part number as shown in this diagram.





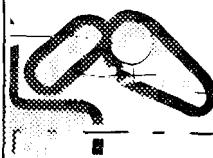


-D Board-



- D Board -

IC		D115	A 2
IC101	B-3	D116	B-2
IC102	C-3	D117	A 8
IC103	CI	D118	B-5
IC104	C-6	D119	c 5
IC105	C 8	D120	A-4
IC352	B-12	D413	A 8
IC354	B 12	D432	B-4
IC355	B 10	D433	C 8
IC431	c-7	D434	C 8
IC501	E-7	D504	G-9
IC601	E2	D505	F-9
IC602	F2	D506	G 9
IC605	E2	D507	E-11
IC606	F-2	D508	E-11
IC607	F5	D509	E 11
TRANSISTOR		D510	F 10
		D511	F-10
		D512	E 8
		D515	E 9
		D516	B-5
		D517	c-5
		D601	G 2
		D602	G-2
		D603	G 4
		D604	G 5
Q101 B-5 Q103 A2 Q104 A-3 Q105 A-4 Q106 A3 Q107 A-9 Q108 A-8 Q109 c 5 Q122 c-7 4344 A 9 Q345 B-10 Q346 B 10 Q434 B 9 4435 B-10 Q436 B 9 4437 B 9 Q438 B-9 Q439 B 9 Q501 G7 Q502 G-10 Q503 F-6 4504 D.5 Q505 D 5 Q601 G-4 Q602 G 6 Q603 F-3 Q604 E-6 Q605 D-6 Q606 D 6 Q610 D.4 Q613 F-6 Q614 F 6		D605 G-6	
		D606 G-6	
		D607 E4	
		D608 E4	
		D609 E-3	
		D610 E3	
		D611 E-6	
		D612 E-4	
		D613 D 4	
		D614 E5	
		D615 E-5	
		D616 E5	
		D617 E5	
		D618 E-5	
		D619 E-6	
		D620 F-2	
		D621 F 5	
		D622 G 4	
		VARIABLE RESISTOR	
		RV101	B-3
DIODE			



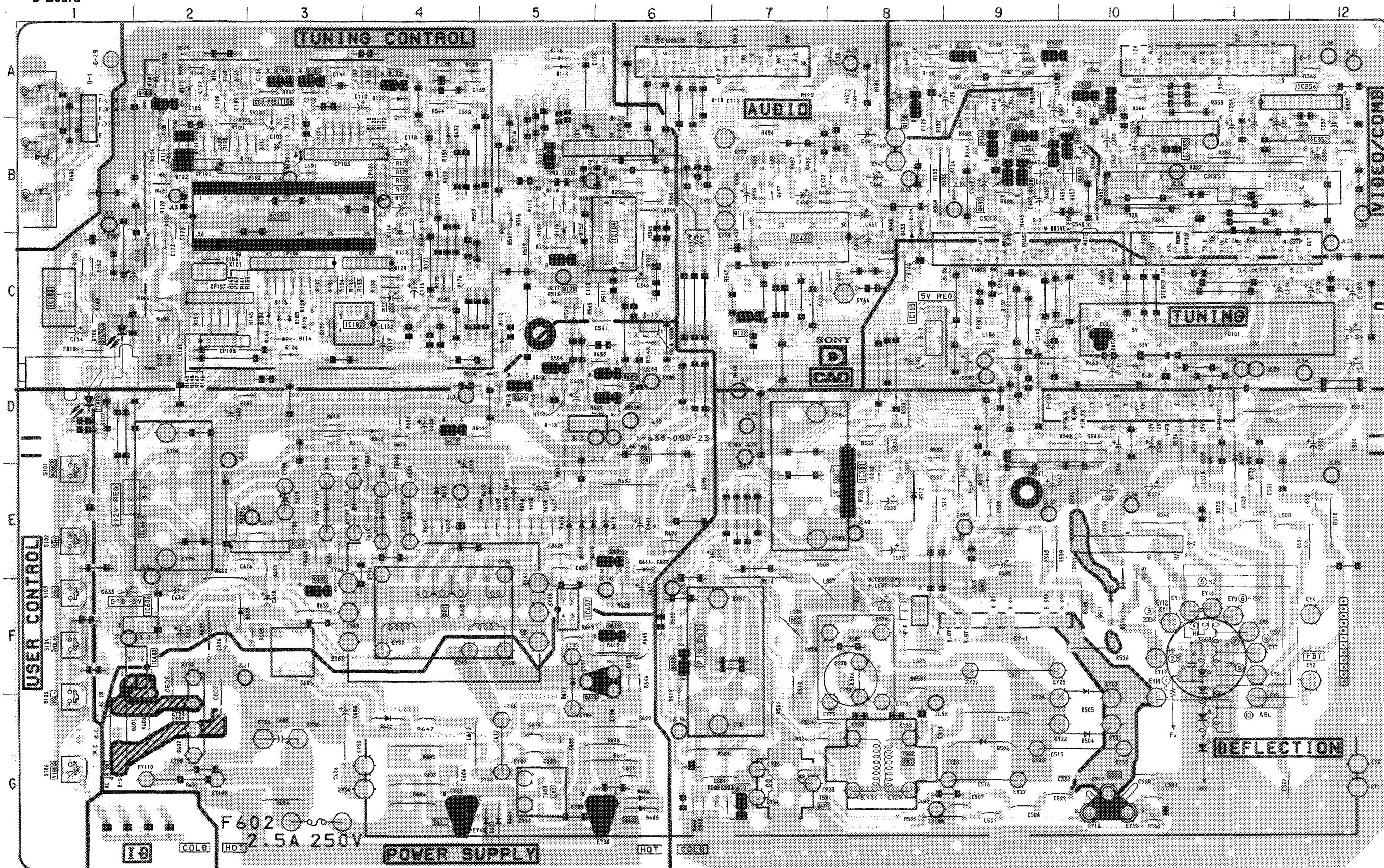
NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

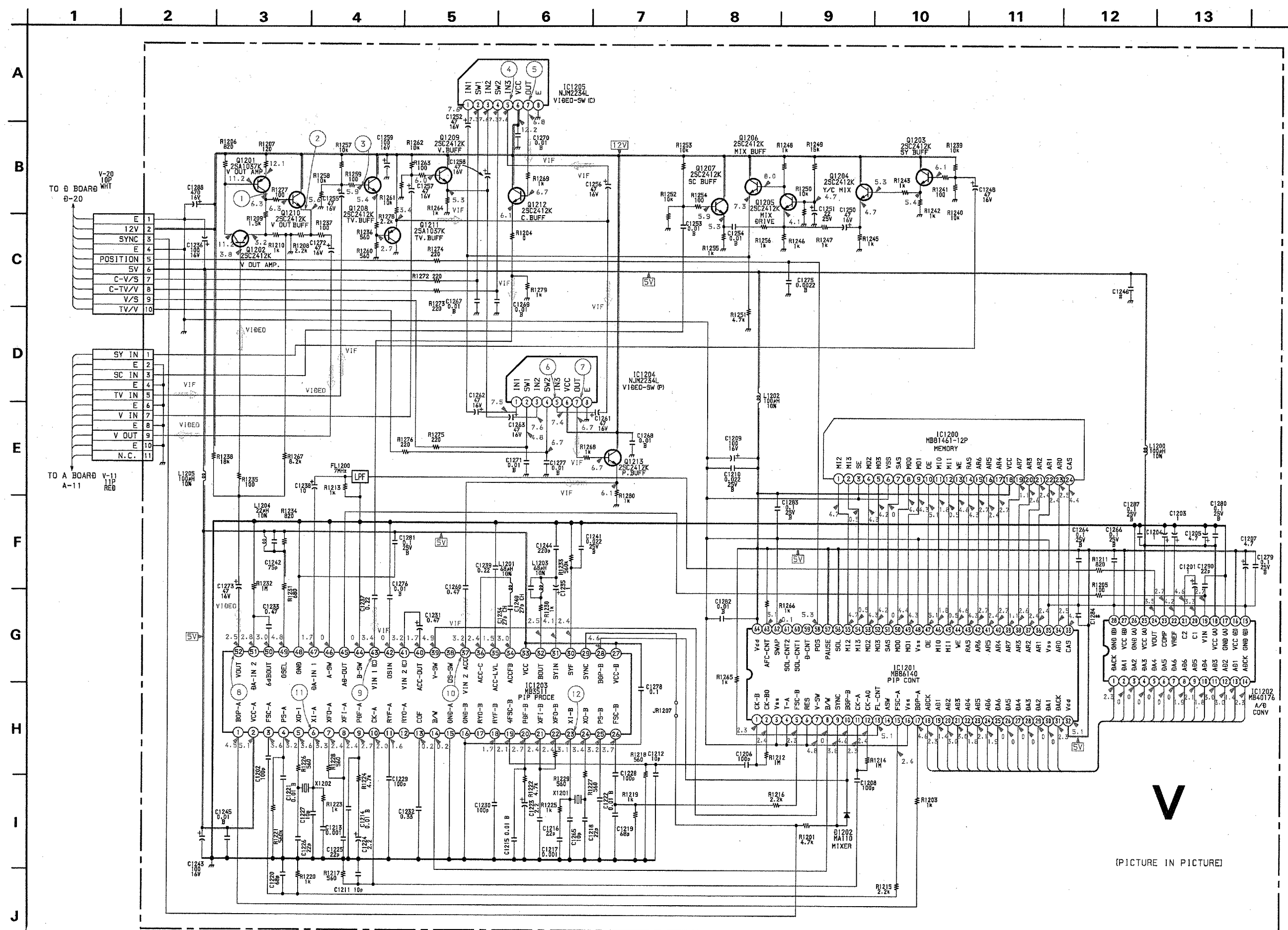


**D**Y. C SW, AUDIO CONT, Y/C SEP, AUDIO SW,  
CONTROL, POWER, TUNER, V. OUT, H. OUT, PIN OUT

— D Board —

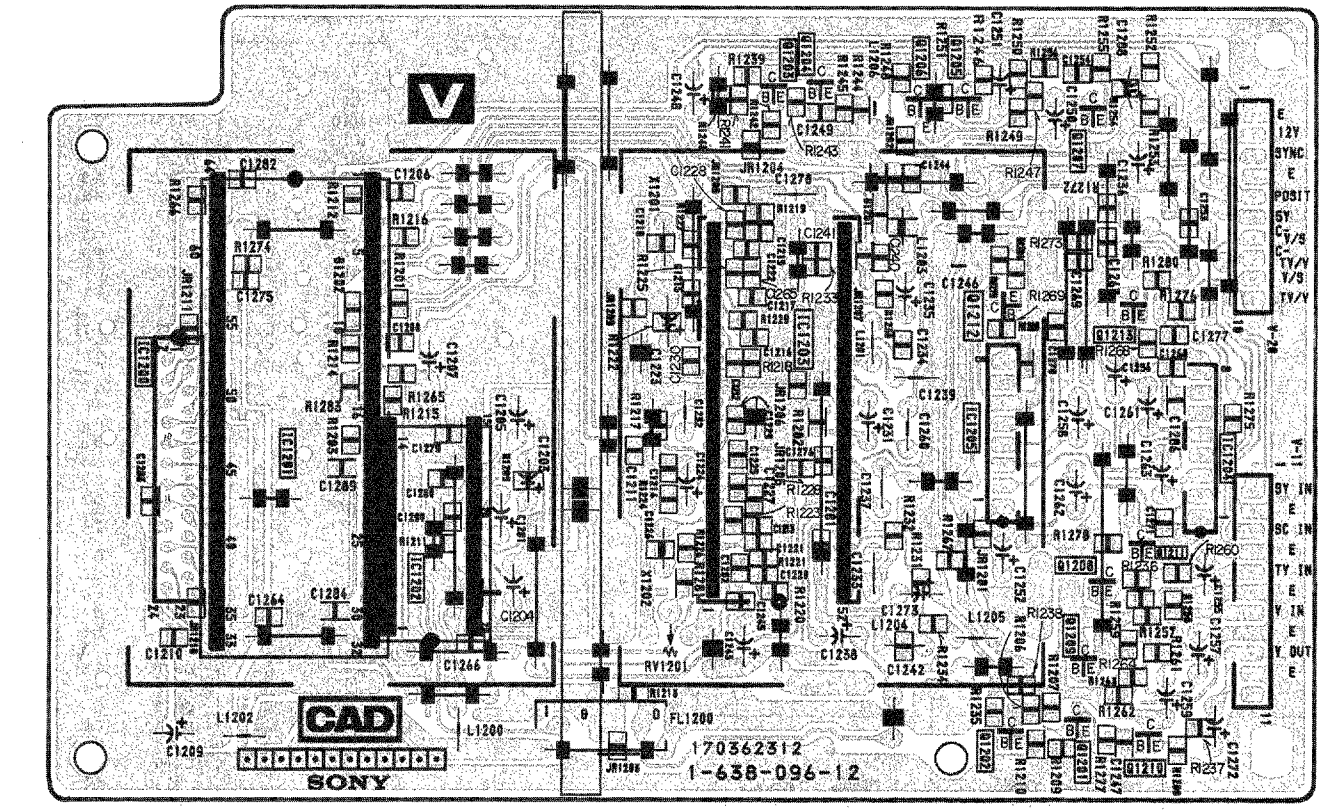






V [PICTURE IN PICTURE]

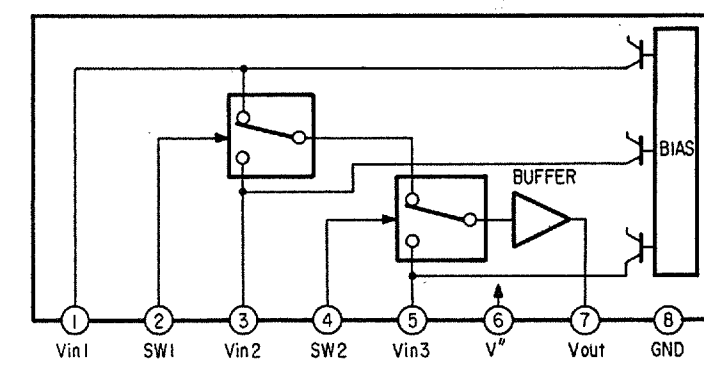
— V Board —



— V Board —

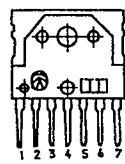
①	②	③
2.1 Vp-p (H)	2.1 Vp-p (H)	2 Vp-p (H)
④	⑤	⑥
1 Vp-p (H)	1 Vp-p (H)	1Vp-p (H)
⑦	⑧	⑨
1 Vp-p (H)	Vp-p ( )	Vp-p ( )
⑩	⑪	⑫
Vp-p ( )	0.2 Vp-p (0.075MS)	0.59Vp-p (0.075MS)

V BOARD IC1205 NJM2234L

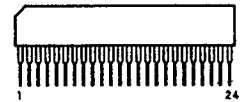


## 6-4. SEMICONDUCTORS

AN5521



MB81461-12-PSZ-G-BF2



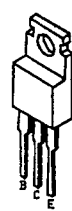
RC78L09A



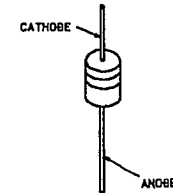
2SA1091-0



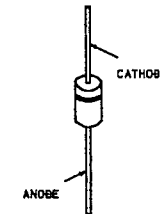
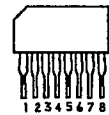
2SC4274-02F9



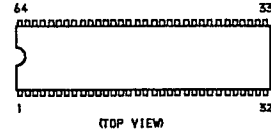
81NS4  
R010SB  
R030ESB2  
R033ESB2  
R04.3ESB1  
R04.7ESB2  
R05.1ESB1  
R05.6ESB1  
R06.2ESB1  
1SS119



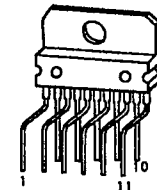
ERC38-06  
ERC06-15S  
RU-3AM  
S2LA20F  
EGP30GL-6072

CX20125  
NJM2234L

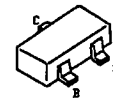
MB886140P-SH



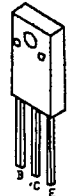
T0A2009A



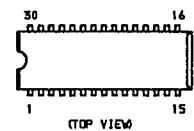
2SA1162-G  
2SB709A-R  
2SC2412K-QR  
2SD601A-Q



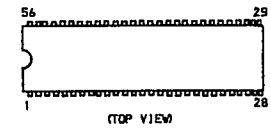
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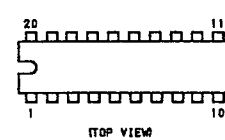
LA7953



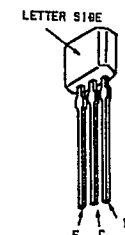
MC68HC05T7-LSC89919B



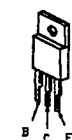
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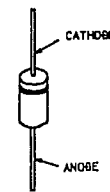
2SA1175-HFE  
2SC2785-HFE  
2SC3311A-QRS



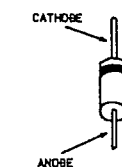
2SD1585-K



EGP20G  
EL1Z  
RGP02-17  
10E-2



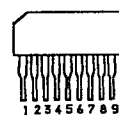
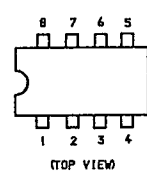
ER029-08J



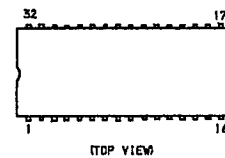
LM7805CT  
LM7812CT  
RC78M09FA



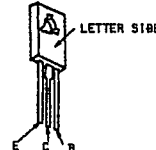
NJM2245S

RC4558P  
X24C01P

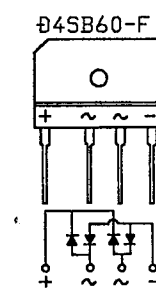
T0A8302



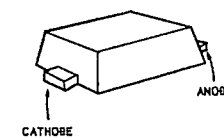
2SC2611  
2SC2688-LK



2SD1941-07



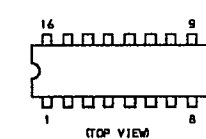
MA110



MB3511P-SH



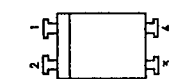
T0A8444



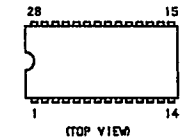
2SD2096EF



PC817-C  
PS2501-1LB



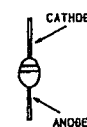
MB40176P



0TC144ES  
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U05G





## SECTION 7

### EXPLODED VIEWS

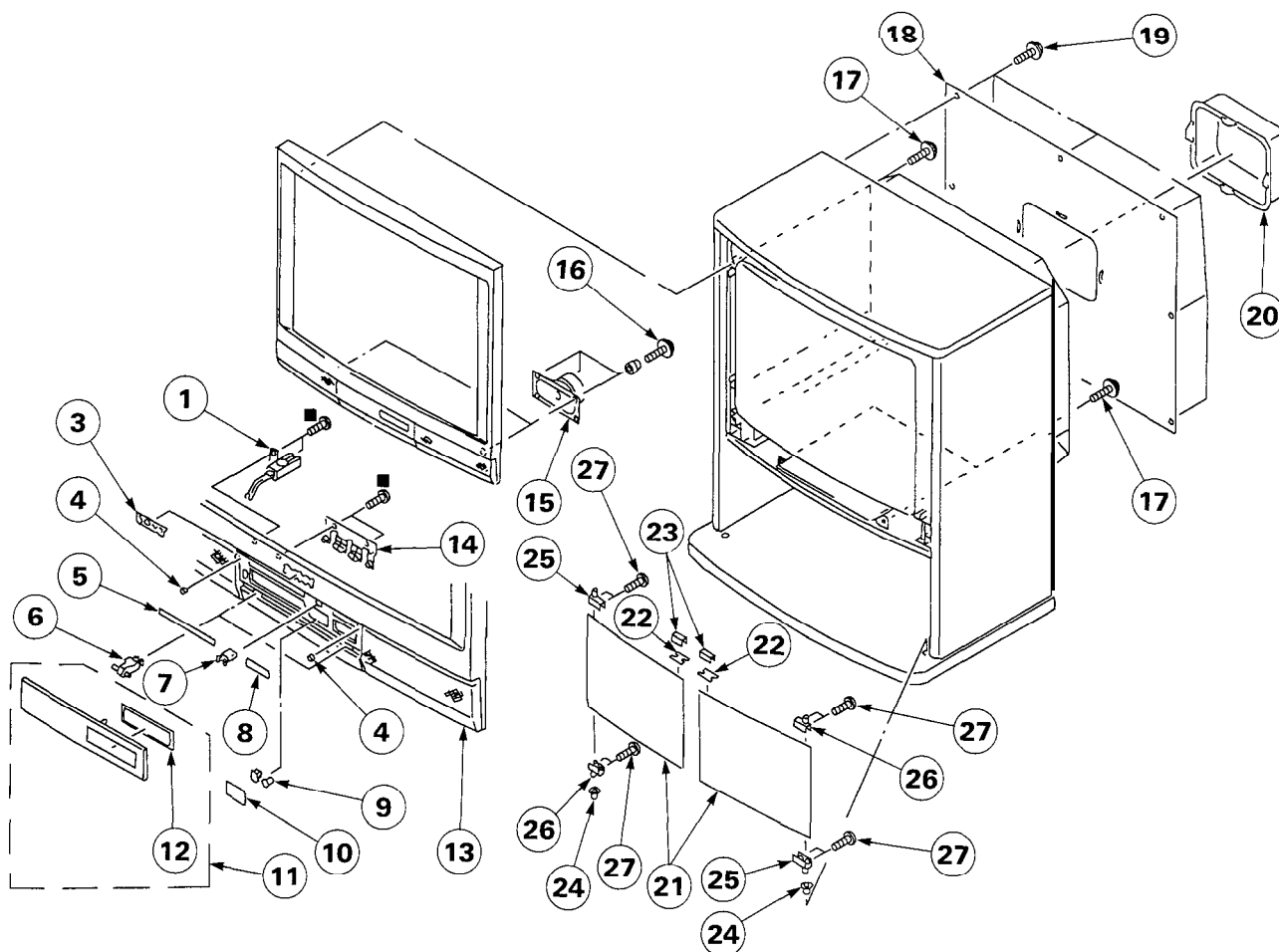
**NOTE.**

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

<p>ii</p> <p>The components identified by shading and mark  are critical for safety</p> <p>Replace only with part number specified</p>		<p>Les composants identifiés par une trame et une marque  sont critiques pour la sécurité</p> <p>Ne les remplacer que par une pièce portant le numéro spécifié</p>
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7-1. COVER

■ : BVTP4X 16 7-685-663-79

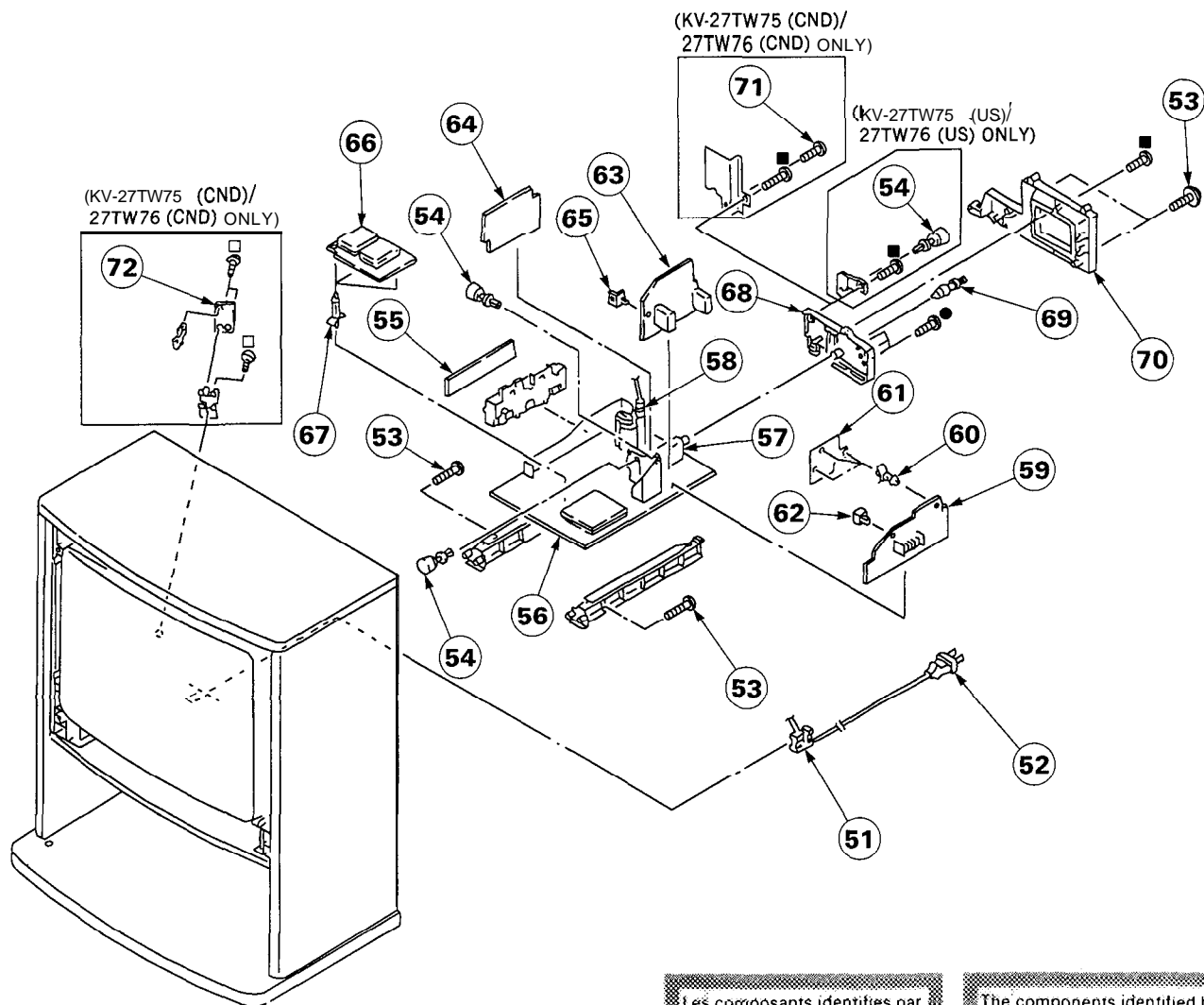



REF. NO.	PART NO.	DESCRIPTION
*4-032-393-01		DAHPER
3-704-179-12		EMBLEM (NO.9), SONY
1-314-871-00		CUSHION
4-032-392-11		LABEL (CONTROL) (BUTTON)
3-703-035-11		SHAFT, LID
4-392-036-01		CATCHER, PUSH
4-032-390-11		LABEL (CONTROL) (A/V)
*4-389-517-01		GUIDE (R), LIGHT
4-032-391-11		PLATE, INDICATION
X-4030-180-1		DOOR ASSY, CONTROL
4-034-973-01		WINDOW, ORNAMENTAL
X-4030-181-1		BEZEL SUB ASSY
X-4029-805-1		BUTTON ASSY, MULTI


REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
	15	1-544-549711	SPEAKER	
	16	4-388-477-01	SCREW (3X16), TAPPING, +BV WASHER	
	17	4-319-520-11	SCREW, SPECIAL (+PW4X30)	
	18	4-034-972-01	PLATE, REAR	
	19	4-378-522-01	SCREW, TAPPING, HEXAGON HEAD	
	20	*4-032-338-01	COVER, NECK	
	21	4-034-971-01	DOOR, GLASS	
	22	2-352-981-01	SPACER	
	23	2-359-505-01	RETAINER, MAGNET	
12	24	2-112-350-01	BEARING	
	25	4-394-243-01	HINGE (B)	
	26	4-394-244-01	HINGE (A)	
	27	2-112-355-01	SCREW	

7-2. CHASSIS

- : BVTP3X 12 7-685-648-79
- : BVTP4X 16 7-685-663-79
- CI: BVTP4X12 7-685-661-14



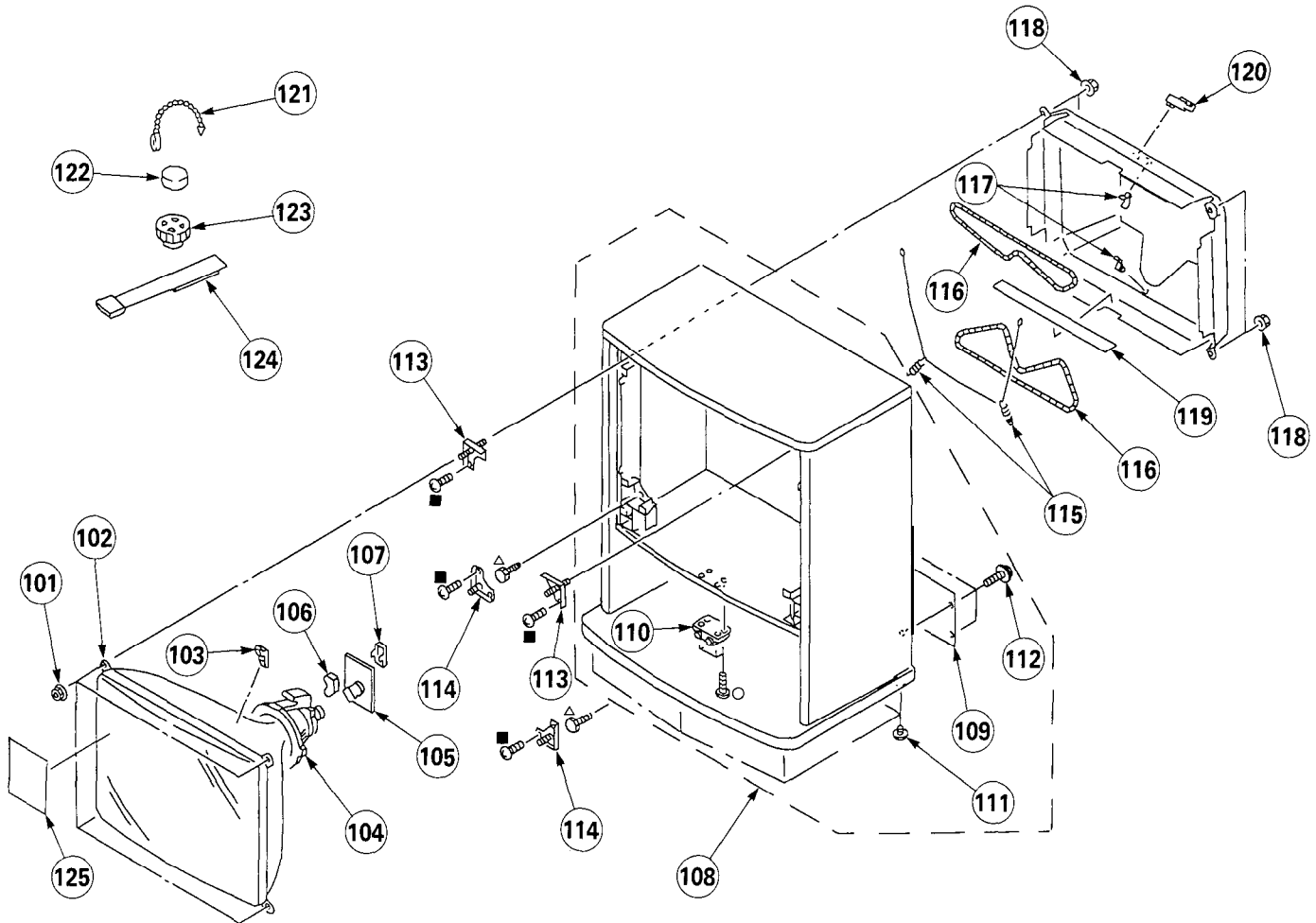
Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
51	▲ 4-357-726-02	HOLDER, AC CORD		59	A-1135-670-A	B BOARD, COMPLETE	
52	▲ 1-590-492-21	CORD, POWER (WITH CONNECTOR)		60	*3-703-353-03	SUPPORT, PC BOARD	
53	4-319-526-11	SCREW, SPECIAL (+PW4X30)		61	4-033-125-01	PLATE, SHIELD	
54	*4-397-418-01	RIVET, T TYPE		62	*4-032-236-01	HOLDER (B), PC BOARD	
55	*1-638-095-23	F BOARD		63	A-1296-931-A	A BOARD, COMPLETE	
56	*A-1346-039-A	D BOARD, COMPLETE		64	A-1345-953-A	E BOARD, COMPLETE	
	*A-1346-038-A	D BOARD, COMPLETE		65	*4-397-417-01	HOLDER, PC BOARD	
		(KV-27TW75(U), KV-27TW76(U) ONLY)		66	A-1347-053-A	V BOARD, COMPLETE	
		(KV-27TW75(C), KV-27TW76(C) ONLY)		67	*3-703-353-10	SUPPORT, PC BOARD	
57	▲ 1-465-371-11	TUNER, BT (8TP-BA401)		68	X-4029-754-1	TERMINAL BOARD ASSY, ANTENNA	
		(KV-27TW75(U), KV-27TW76(U) ONLY)		69	1-573-657-11	PLUG, F-PIN	
	▲ 1-465-371-21	TUNER, BT (8TP-BA401)		70	4-034-968-01	COVER, ANTENNA TERMINAL	
		(KV-27TW75(C), KV-27TW76(C) ONLY)		71	4-382-854-11	SCREW (M3X10), P. SW (+)	
58	▲ 1-439-502-11	TRANSFORMER ASSY, FLYBACK (NX-2600A3)				(KV-27TW75(C), KV-27TW76(C) ONLY)	
				72	*1-642-138-11	FA BOARD (KV-27TW75(C), KV-27TW76(C) ONLY)	

## 7-3. PICTURE TUBE

■ : BVTP4 X 16 7-685-663-79  
 ○ : BVTP3 X 16 7-685-650-79  
 A : BOLT, HEXAGON5×20 7-683-340-07



Les composants identifiés par  
une trame et une marque A  
sont critiques pour la sécurité.  
Ne les remplacer que par une  
pièce portant le numéro spécifié.

The components identified by  
shading and mark A are critical  
for safety.  
Replace only with part number  
specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
101	4-387-204-01	NUT, SPECIAL, PICTURE TUBE		111	2-383-604-01	FOOT	
102	4-3-737-753-05	PICTURE TUBE (A68JW750X)		112	4-378-522-01	SCREW, TAPPING, HEXAGON HEAD	
103	3-704-495-01	SPACER, ØY		113	*4-379-197-01	BRACKET (H), PICTURE TUBE	
104	4-1-451-275-31	DEFLECTION YOKE (Y28PFA)		114	*4-376-989-01	BRACKET (E), PICTURE TUBE	
105	*A-1331-128-A	C BOARD, COMPLETE (KV-27TW75(U), KV-27TW76(U) ONLY)		115	4-369-318-00	SPRING, TENSION	
	*A-1331-189-A	C BOARD, COMPLETE (KV-27TW75(C), KV-27TW76(C) ONLY)		116	1-426-350-11	COIL, DEMAGNETIZATION	
106	*4-379-167-01	COVER (MAIN), CV		117	*4-371-629-01	STOPPER, WIRE	
107	*4-379-160-01	COVER (REAR LID), CV		118	4-306-034-00	FLANGE NUT., (B) 5MM	
108	X-4030-293-1	CABINET ASSY (KV-27TW75(U/C) ONLY)	109~112	119	4-385-725-01	SHEET, BLOTTING	
	X-4030-293-2	CABINET ASSY (KV-27TW76(U/C) ONLY)	109~112	120	*4-387-284-01	HOLDER, LEAD	
109		BOTTOM REAR BOARD		121	4-308-870-00	CLIP, LEAD WIRE	
110	4-034-970-01	MAGNET; PUSH		122	1-452-032-00	MAGNET, DISK; 10MM Ø	
				123	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
				124	X-4306-312-0	PERMALLOY ASSY, CONVERGENCE	
				125	*3-703-703-01	STICKER, SONY SYMBOL (50)	

NOTE :

B

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q306	8-729-216-22	TRANSISTOR 2SA1162-G		R351	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
Q307	8-729-920-74	TRANSISTOR 2SC2412K-QR		R352	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
Q308	8-729-119-78	TRANSISTOR 2SC2785-HFE		R353	1-216-037-00	METAL GLAZE 330 5%	1/10W
Q309	8-729-920-74	TRANSISTOR 2SC2412K-QR					
Q310	8-729-920-74	TRANSISTOR 2SC2412K-QR		R354	1-216-075-00	METAL GLAZE 12K 5%	1/10W
				R355	1-216-075-00	METAL GLAZE 12K 5%	1/10W
Q311	a-729-920-74	TRANSISTOR 2SC2412K-QR		R356	1-216-025-00	METAL GLAZE 100 5%	1/10W
Q312	8-729-920-74	TRANSISTOR 2SC2412K-QR		R357	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
Q313	8-729-920-74	TRANSISTOR 2SC2412K-QR		R358	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W
Q314	8-729-216-22	TRANSISTOR 2SA1162-G					
Q330	8-729-920-74	TRANSISTOR 2SC2412K-QR		R359	1-216-109-00	METAL GLAZE 330K 5%	1/10W
				R360	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
Q1400	B-729-920-74	TRANSISTOR 2SC2412K-QR		R361	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
Q1401	8-729-920-74	TRANSISTOR 2SC2412K-QR		R362	1-216-083-00	METAL GLAZE 27K 5%	1/10W
Q1402	8-729-920-74	TRANSISTOR 2SC2412K-QR		R363	1-216-117-00	METAL GLAZE 680K 5%	1/10W
Q1403	8-729-216-22	TRANSISTOR 2SA1162-G					
<RESISTOR>				R364	1-216-025-00	METAL GLAZE 100 5%	1/10W
R301	1-216-091-00	METAL GLAZE 56K 5%	1/10W	R377	1-247-688-11	CARBON 10 5%	1/4W F
R302	1-216-075-00	METAL GLAZE 12K 5%	1/10W	R380	1-216-041-00	METAL GLAZE 470 5%	1/10W
R303	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R381	1-216-033-00	METAL GLAZE 220 5%	1/10W
R304	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R382	1-216-033-00	METAL GLAZE 220 5%	1/10W
R305	1-216-041-00	METAL GLAZE 470 5%	1/10W				
				R383	1-216-033-00	METAL GLAZE 220 5%	1/10W
R306	1-216-107-00	METAL GLAZE 270K 5%	1/10W	R384	1-216-033-00	METAL GLAZE 220 5%	1/10W
R307	1-216-121-00	METAL GLAZE 1M 5%	1/10W	R385	1-216-033-00	METAL GLAZE 220 5%	1/10W
R308	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W	R386	1-216-121-00	METAL GLAZE 1M 5%	1/10W
R309	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R387	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R310	1-216-095-00	METAL GLAZE 82K 5%	1/10W				
				R388	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W
R311	1-216-097-00	METAL GLAZE 100K 5%	1/10W	R1401	1-216-025-00	METAL GLAZE 100 5%	1/10W
R312	1-216-089-00	METAL GLAZE 47K 5%	1/10W	R1403	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R313	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R1405	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R314	1-216-295-00	METAL GLAZE 0 5%	1/10W	R1406	1-216-025-00	METAL GLAZE 100 5%	1/10W
R315	1-216-295-00	METAL GLAZE 0 5%	1/10W				
				R1409	1-216-077-00	METAL GLAZE 15K 5%	1/10W
R316	1-216-033-00	METAL GLAZE 220 5%	1/10W	R1410	1-216-063-00	METAL GLAZE 3.9K 5%	1/10W
R318	1-216-089-00	METAL GLAZE 47K 5%	1/10W	R1411	1-216-077-00	METAL GLAZE 15K 5%	1/10W
R319	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R1412	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W
R320	1-216-033-00	METAL GLAZE 220 5%	1/10W	R1413	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
R321	1-216-073-00	METAL GLAZE 10K 5%	1/10W				
				R1414	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
R322	1-216-033-00	METAL GLAZE 220 5%	1/10W	R1415	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R323	1-216-033-00	METAL GLAZE 220 5%	1/10W	R1416	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R324	1-216-033-00	METAL GLAZE 220 5%	1/10W	R1417	1-216-085-00	METAL GLAZE 33K 5%	1/10W
R325	1-216-033-00	METAL GLAZE 220 5%	1/10W	R1418	1-216-097-00	METAL GLAZE 100K 5%	1/10W
R326	1-216-033-00	METAL GLAZE 220 5%	1/10W				
				R1419	1-216-041-00	METAL GLAZE 470 5%	1/10W
R327	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R1420	1-216-075-00	METAL GLAZE 12K 5%	1/10W
R329	1-216-295-00	METAL GLAZE 0 5%	1/10W	R1421	1-216-075-00	METAL GLAZE 12K 5%	1/10W
R330	1-216-037-00	METAL GLAZE 330 5%	1/10W	R1422	1-216-011-00	METAL GLAZE 27 5%	1/10W
R331	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R1423	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W
R332	1-216-089-00	METAL GLAZE 47K 5%	1/10W				
				R1424	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W
R333	1-216-089-00	METAL GLAZE 47K 5%	1/10W	R1425	1-216-011-00	METAL GLAZE 27 5%	1/10W
R334	1-216-033-00	METAL GLAZE 220 5%	1/10W	R1426	1-216-298-00	METAL GLAZE 2.2 5%	1/10W
R335	1-216-045-00	METAL GLAZE 680 5%	1/10W	R1427	1-216-298-00	METAL GLAZE 2.2 5%	1/10W
R336	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R1428	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R337	1-216-049-00	METAL GLAZE 1K 5%	1/10W				
				R1429	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R338	1-216-049-00	METAL GLAZE 1K 5%	1/10W	<VARIABLE RESISTOR>			
R339	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	RV301	1-238-011-11	RES, ADJ, CARBON 470	
R340	1-216-097-00	METAL GLAZE 100K 5%	1/10W	RV302	1-238-017-11	RES, ADJ, CARBON 22K	
R342	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W	RV303	1-238-014-11	RES, ADJ, CARBON 3.3K	
R343	1-216-049-00	METAL GLAZE 1K 5%	1/10W	RV1400	1-238-016-11	RES, ADJ, CARBON 10K	
R344	1-216-025-00	METAL GLAZE 100 5%	1/10W	<SWITCH>			
R345	1-216-075-00	METAL GLAZE 12K 5%	1/10W	s751	1-554-186-00	SWITCH, LEVER	
R346	1-216-049-00	METAL GLAZE 1K 5%	1/10W				
R347	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W				
R348	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W				
R349	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W				
R350	1-216-075-00	METAL GLAZE 12K 5%	1/10W				

B

FA

F

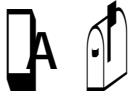
A

Les composants identifiés par  
une trame et une marque  $\Delta$   
sont critiques pour la sécurité  
Ne les remplacer que par une  
pièce portant le numéro spécifié

The components identified by  
shading and mark  $\Delta$  are critical  
for safety  
Replace only with part number  
specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
		<CRYSTAL>				<FUSE>	
x301	1-567-505-11	OSCILLATOR, CRYSTAL		F601	$\Delta$ 1-532-748-11	FUSE, GLASS TUBE 6.3A/125V (KV-27TW75(U), KV-27TW76(U) ONLY)	
		*****				<RESISTOR>	
	*1-642-138-11	FA BOARD ***** (KV-27TW75(C), KV-27TW76(C) ONLY)		R680	$\Delta$ 1-202-723-91	SOLID 2.2M 10% 1/2W (KV-27TW75(U), KV-27TW76(U) ONLY)	
	1-533-223-11	CLIP, FUSE		R681	$\Delta$ 1-202-723-91	SOLID 2.2M 10% 1/2W	
	*4-341-751-01	EYELET (EY5, EY6)		R683	1-202-525-00	SOLID 10 10% 1/2W	
	*4-341-752-01	EYELET (EY1~EY4)		RI580	1-215-884-11	METAL OXIDE 47 5% 2W F	
		<CAPACITOR>		RI581	1-215-884-11	METAL OXIDE 47 5% 2W F	
C600	$\Delta$ 1-136-311-51	FILM 0.47MF 20% 125V		RI584	1-215-880-00	METAL OXIDE 10 5% 2W F	
		<FUSE>				<RELAY>	
F600	$\Delta$ 1-532-748-11	FUSE, GLASS TUBE 6.3A/125V		RY680	$\Delta$ 1-515-684-22	R E L A Y	
		<CONNECTOR>				<TRANSFORMER>	
FAI	*1-580-844-11	PIN, CONNECTOR (POWER)		T680	$\Delta$ 1-424-220-21	TRANSFORMER, LINE FILTER	
FA2	*1-580-844-11	PIN, CONNECTOR (POWER)		T681	$\Delta$ 1-424-546-11	TRANSFORMER, LINE FILTER	
		<RESISTOR>				<THERMISTOR>	
R600	$\Delta$ 1-202-723-91	SOLID 2.2M 10% 1/2W		THP601	$\Delta$ 1-808-081-14	THERMISTOR, POSITIVE	
		*****				*****	
	*1-638-095-23	F BOARD *****			A-1296-931-A	A BOARD, COMPLETE *****	
	1-533-223-11	CLIP, FUSE (KV-27TW75(U), KV-27TW76(U) ONLY)				<CONNECTOR>	
	*4-341-751-01	EYELET (EY3~EY10, EY11 (KV-27TW75(U), KV-27TW76(U) ONLY), EY12 (KV-27TW75(U), KV-27TW76(U) ONLY), EY14, EY15, EY22~EY24)		A1	*1-564-508-11	PLUG, CONNECTOR 5P	
	*4-341-752-01	EYELET (EY1, EY2, EY13)		A3	1-573-301-11	CONNECTOR, BOARD TO BOARD 20P	
		<CAPACITOR>		A4	1-573-301-11	CONNECTOR, BOARD TO BOARD 20P	
C680	$\Delta$ 1-136-311-51	FILM 0.47MF 20% 125V (KV-27TW75(U), KV-27TW76(U) ONLY)		A11	*1-564-514-11	PLUG, CONNECTOR 11P	
C681	$\Delta$ 1-161-741-51	CERAMIC 0.001MF 10% 400V		A12	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
C682	$\Delta$ 1-136-311-51	FILM 0.47MF 20% 125V				<CAPACITOR>	
C685	1-161-754-00	CERAMIC 0.001MF 10% 3KV		C202	1-130-471-00	MYLAR 0.001MF 5% 50V	
		<DIODE>		C203	1-126-233-11	ELECT 22MF 20% 50V	
D680	8-719-911-55	DIODE U05G		C204	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
D1580	8-719-911-55	DIODE U05G		C207	1-136-163-00	FILM 0.068MF 5% 50V	
D1581	8-719-911-55	DIODE U05G		C209	1-136-165-00	FILM 0.1MF 5% 50V	
		<CONNECTOR>		C210	1-164-161-11	CERAMIC CHIP 0.0022MF 10% 50V	
F1	*1-580-843-11	PIN, CONNECTOR (POWER)		C211	1-164-161-11	CERAMIC CHIP 0.0022MF 10% 50V	
F3	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		C213	1-136-161-00	FILM 0.047MF 5% 50V	
F4	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P		C215	1-163-121-00	CERAMIC CHIP 150PF 5% 50V	
F5	*1-559-991-21	CONNECTOR ASSY 1P		C216	1-126-233-11	ELECT 22MF 20% 25V	
F7	*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P		C217	1-126-233-11	ELECT 22MF 20% 25V	
F8	*1-564-506-11	PLUG, CONNECTOR 3P		C218	1-124-903-11	ELECT 1MF 20% 50V	
F9	*1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P		C219	1-163-007-11	CERAMIC CHIP 680PF 10% 50V	
F18	*1-564-507-11	PLUG, CONNECTOR 4P		C220	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
				C222	1-126-233-11	ELECT 22MF 20% 25V	
				C224	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
				C225	1-124-903-11	ELECT 1MF 20% 50V	
				C226	1-126-101-11	ELECT 100MF 20% 16V	
				C233	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
				C234	1-124-477-11	ELECT 47MF 20% 16V	
				C235	1-130-729-00	FILM 0.0027MF 5% 50V	
				C237	1-124-907-11	ELECT 10MF 20% 50V	





REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C241	1-136-153-00	FILM 0.01MF	5% 50V	JR216	I-216-295-00	METAL GLAZE 0 5%	1/10W
C242	1-136-153-00	FILK 0.01MF	5% 50V	JR217	I-216-295-00	METAL GLAZE 0 5%	1/10W
C251	1-136-169-00	FILM 0.22MF	5% 50V	JR220	I-216-295-00	METAL GLAZE 0 5%	1/10W
C254	1-124-907-11	ELECT 10MF	20% 50V	JR221	I-216-295-00	METAL GLAZE 0 5%	1/10W
C274	1-124-477-11	ELECT 47MF	20% 25V	JR222	I-216-295-00	METAL GLAZE 0 5%	1/10W
C275	1-164-005-11	CERAMIC CHIP 0.47MF	25V	JR223	I-216-295-00	METAL GLAZE 0 5%	1/10W
C278	1-101-006-00	CERAMIC 0.047MF	50V	JR224	I-216-295-00	METAL GLAZE 0 5%	1/10W
C287	1-101-006-00	CERAMIC 0.047MF	50V	JR230	I-216-295-00	METAL GLAZE 0 5%	1/10W
C401	1-126-233-11	ELECT 22MF	20% 25V	R200	I-216-051-00	METAL GLAZE 1.2K 5%	1/10W
C402	1-124-903-11	ELECT 1MF	20% 50V	R201	I-216-085-00	METAL GLAZE 33K 5%	1/10W
C403	1-124-903-11	ELECT 1MF	20% 50V	R202	I-216-049-00	METAL GLAZE 1K 5%	1/10W
C404	1-124-903-11	ELECT 1MF	20% 50V	R204	1-216-105-00	METAL GLAZE 220K 5%	1/10W
C405	1-124-903-11	ELECT 1MF	20% 50V	R206	1-216-091-00	METAL GLAZE 56K 5%	1/10W
C406	1-126-233-11	ELECT 22MF	20% 25V	R207	1-216-099-00	METAL GLAZE 120K 5%	1/10W
C407	1-126-233-11	ELECT 22MF	20% 25V	R208	1-216-091-00	METAL GLAZE 56K 5%	1/10W
C410	1-126-233-11	ELECT 22MF	20% 25V	R209	1-216-049-00	METAL GLAZE 1K 5%	1/10W
C412	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	R210	I-216-065-00	METAL GLAZE 4.7K 5%	1/10W
C413	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	R211	1-216-089-00	METAL GLAZE 47K 5%	1/10W
<DIODE>				R212	1-216-085-00	METAL GLAZE 33K 5%	1/10W
D401	g-719-158-39	DIODE RD10S-B		R213	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
D402	g-719-158-39	DIODE RD10S-B		R214	1-216-095-00	METAL GLAZE 82K 5%	1/10W
D403	g-719-158-39	DIODE RD10S-B		R219	I-216-073-00	METAL GLAZE 10K 5%	1/10W
D404	g-719-158-39	DIODE RD10S-B		R220	I-216-061-00	METAL GLAZE 3.3K 5%	1/10W
D405	g-719-158-39	DIODE RD10S-B		R226	I-216-037-00	METAL GLAZE 330 5%	1/10W
D406	g-719-158-39	DIODE RD10S-B		R227	I-216-089-00	METAL GLAZE 47K 5%	1/10W
D407	g-719-158-39	DIODE RD10S-B		R228	I-216-065-00	METAL GLAZE 4.7K 5%	1/10W
D408	g-719-158-39	DIODE RD10S-B		R229	I-216-067-00	METAL GLAZE 5.6K 5%	1/10W
D409	g-719-158-39	DIODE RD10S-B		R230	I-216-049-00	METAL GLAZE 1K 5%	1/10W
<IC>				R231	I-216-295-00	METAL GLAZE 0 5%	1/10W
IC201	g-759-510-90	IC TDA8302		R232	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W
IC202	g-759-982-25	IC RC78L09A		R234	1-216-049-00	METAL GLAZE 1K 5%	1/10W
IC203	g-759-982-37	IC RC78M93FD		R237	I-216-033-00	METAL GLAZE 220 5%	1/10W
MM201	g-741-637-11	IC SBX1637-11		R238	I-216-049-00	METAL GLAZE 1K 5%	1/10W
<IF BLOCK>				R239	I-216-049-00	METAL GLAZE 1K 5%	1/10W
IF201	1-464-756-21	IF BLOCK (IFF-450A)		R249	I-216-025-00	METAL GLAZE 100 5%	1/10W
<JACK>				R250	I-216-065-00	METAL GLAZE 4.7K 5%	1/10W
J401	1-566-846-11	CONNECTOR, (S) TERMINAL 4P		R251	I-216-065-00	METAL GLAZE 4.7K 5%	1/10W
J402	1-573-658-11	JACK BLOCK, PIN 7P		R252	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
<COIL>				R253	I-216-025-00	METAL GLAZE 100 5%	1/10W
L201	1-410-792-31	INDUCTOR 0.82UH		R255	1-216-295-00	METAL GLAZE 0 5%	1/10W
<TRANSISTOR>				R256	1-216-083-00	METAL GLAZE 27K 5%	1/10W
Q201	g-729-920-74	TRANSISTOR 2SC2412K-QR		R257	I-216-099-00	METAL GLAZE 120K 5%	1/10W
Q203	g-729-920-74	TRANSISTOR 2SC2412K-QR		R258	I-216-025-00	METAL GLAZE 100 5%	1/10W
Q209	g-729-216-22	TRANSISTOR 2SA1162-G		R260	I-216-055-00	METAL GLAZE 1.8K 5%	1/10W
Q401	g-729-920-74	TRANSISTOR 2SC2412K-QR		R261	I-216-073-00	METAL GLAZE 10K 5%	1/10W
Q406	g-729-920-74	TRANSISTOR 2SC2412K-QR		R265	I-216-063-00	METAL GLAZE 3.9K 5%	1/10W
<RESISTOR>				R266	I-216-049-00	METAL GLAZE 1K 5%	1/10W
JR201	I-216-295-00	METAL GLAZE 0 5%	1/10W	R267	I-216-049-00	METAL GLAZE 1K 5%	1/10W
JR202	I-216-295-00	METAL GLAZE 0 5%	1/10W	R270	I-216-295-00	METAL GLAZE 0 5%	1/10W
JR207	I-216-295-00	METAL GLAZE 0 5%	1/10W	R271	I-216-067-00	METAL GLAZE 5.6K 5%	1/10W
JR215	I-216-295-00	METAL GLAZE 0 5%	1/10W	R272	I-216-295-00	METAL GLAZE 0 5%	1/10W
				8273	1-249-482-11	CARBON 4.7 5%	1/2W F
				R290	1-216-133-00	METAL GLAZE 3.3M 5%	1/10W
				R291	1-216-133-00	METAL GLAZE 3.3M 5%	1/10W
				R292	1-216-129-00	METAL GLAZE 2.2M 5%	1/10W
				R293	1-216-133-00	METAL GLAZE 3.3M 5%	1/10W
				R294	I-216-133-00	METAL GLAZE 3.3M 5%	1/10W
				R295	I-216-133-00	METAL GLAZE 3.3M 5%	1/10W
				R296	I-216-295-00	METAL GLAZE 0 5%	1/10W
				R401	I-216-023-00	METAL GLAZE 82 5%	1/10W
				R402	I-216-079-00	METAL GLAZE 18K 5%	1/10W
				R403	I-216-103-00	METAL GLAZE 180K 5%	1/10W
				R404	I-216-079-00	METAL GLAZE 18K 5%	1/10W

A C

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R405	1-216-103-00	METAL GLAZE 180K 5%	1/10W			<JACK>	
R406	1-216-079-00	METAL GLAZE 18K 5%	1/10W				
R407	1-216-103-00	METAL GLAZE 180K 5%	1/10W				
R408	1-216-079-00	METAL GLAZE 18K 5%	1/10W	J701	$\Delta$ 1-540-071-13	SOCKET, PICTURE TUBE	
R409	1-216-103-00	METAL GLAZE 180K 5%	1/10W			<COIL>	
R410	1-216-023-00	METAL GLAZE 82 5%	1/10W				
R411	1-216-023-00	METAL GLAZE 82 5%	1/10W	L701	1-408-417-00	INDUCTOR 47UH	
R412	1-216-049-00	METAL GLAZE 1K 5%	1/10W			<NEON LAMP>	
R413	1-216-097-00	METAL GLAZE 100K 5%	1/10W				
R414	1-216-049-00	METAL GLAZE 1K 5%	1/10W	NL701	1-519-108-99	LAMP, NEON ASSY	
R415	1-216-097-00	METAL GLAZE 100K 5%	1/10W			<TRANSISTOR>	
R416	1-216-049-00	METAL GLAZE 1K 5%	1/10W				
R417	1-216-073-00	METAL GLAZE 10K 5%	1/10W	Q701	g-729-119-78	TRANSISTOR 2SC2785-HFE	
R418	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W	8702	s-729-326-11	TRANSISTOR 2SC2611	
R419	1-216-295-00	METAL GLAZE 0 5%	1/10W	Q703	g-729-119-78	TRANSISTOR 2SC2785-HFE	
R420	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W	8704	s-729-326-11	TRANSISTOR 2SC2611	
R421	1-216-049-00	METAL GLAZE 1K 5%	1/10W	Q705	8-729-119-78	TRANSISTOR 2SC2785-HFE	
R422	1-216-049-00	METAL GLAZE 1K 5%	1/10W				
R431	1-216-025-00	METAL GLAZE 100 5%	1/10W	Q706	8-729-326-11	TRANSISTOR 2SC2611	
R432	1-216-073-00	METAL GLAZE 10K 5%	1/10W			<RESISTOR>	
R433	1-216-073-00	METAL GLAZE 10K 5%	1/10W				
R434	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R701	1-202-838-00	SOLID 100K 10% 1/2W	
		<VARIABLE RESISTOR>		R702	1-216-391-00	METAL OXIDE 1.5 5% 3W F	
RV205	1-238-015-11	RES, ADJ. CARBON 4.7K				(KV-27TW75(U), KV-27TW76(U) ONLY)	
RV250	1-226-703-11	RES, ADJ. METAL GLAZE 10K			1-216-394-00	METAL OXIDE 2.7 5% 3W F	
						(KV-27TW75(C), KV-27TW76(C) ONLY)	
*****				R703	1-202-842-11	SOLID 220K 10% 1/2W	
*A-1331-128-A	C BOARD, COMPLETE			R704	1-202-846-00	SOLID 470K 10% 1/2W	
	*****			R705	1-202-837-00	SOLID 82K 10% 1/2W	
	(KV-27TW75(U), KV-27TW76(U) ONLY)			R706	1-202-549-00	SOLID 100 10% 1/2W	
*A-1331-189-A	C BOARD, COMPLETE			R707	1-202-842-11	SOLID 220K 10% 1/2W	
	*****						
	(KV-27TW75(C), KV-27TW76(C) ONLY)			R708	1-202-824-00	SOLID 3.3K 10% 1/2W	
*4-379-160-01	COVER (REAR LID), CV			R709	1-202-824-00	SOLID 3.3K 10% 1/2W	
*4-379-167-01	COVER (MAIN), CV			R710	1-202-553-00	SOLID 150 10% 1/2W	
				R711	1-249-411-11	CARBON 330 5% 1/4W	
				R712	1-249-411-11	CARBON 330 5% 1/4W	
	<CONNECTOR>			R713	1-202-824-00	SOLID 3.3K 10% 1/2W	
C1	*1-506-371-00	PIN, CONNECTOR 2P		R714	1-249-405-11	CARBON 100 5% 1/4W	
C2	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P		R715	1-249-422-11	CARBON 2.7K 5% 1/4W	
c3	*1-564-509-11	PLUG, CONNECTOR 6P		R716	1-249-416-11	CARBON 820 5% 1/4W	
				R718	1-249-393-11	CARBON 10 5% 1/4W	
	<CAPACITOR>			R719	1-249-417-11	CARBON 1K 5% 1/4W	
C702	1-162-116-00	CERAMIC 680PF 10% 2KV		R720	1-249-413-11	CARBON 470 5% 1/4W	
C704	1-124-915-11	ELECT 10MF 20% 63V		R722	1-215-923-00	METAL OXIDE 10K 5% 3W F	
C705	1-164-083-11	CERAMIC 68dPF 10% 50v		R723	1-249-416-11	CARBON 820 5% 1/4W	
C706	1-164-083-11	CERAMIC 680PF 10% 50v		R725	1-249-422-11	CARBON 2.7K 5% 1/4W	
C707	1-164-083-11	CERAMIC 680PF 10% 50v					
C708	1-164-081-11	CERAMIC 470PF 10% 50v		R726	1-249-393-11	CARBON 10 5% 1/4W	
C709	1-164-081-11	CERAMIC 470PF 10% 50V		R727	1-249-417-11	CARBON 1K 5% 1/4W	
C710	1-164-081-11	CERAMIC 470PF 10% 50V		R728	1-249-413-11	CARBON 470 5% 1/4W	
C712	1-124-477-11	ELECT 47MF 20% 16V		R729	1-249-411-11	CARBON 330 5% 1/4W	
C721	1-161-731-81	CERAMIC 0.001MF 10% 2KV		R730	1-215-923-00	METAL OXIDE 10K 5% 3W F	
C722	1-162-622-11	CERAMIC 330PF 10% 6.3KV					
	<DIODE>			R732	1-249-412-11	CARBON 390 5% 1/4W	
D701	8-719-911-19	DIODE 1SS119		R733	1-249-422-11	CARBON 2.7K 5% 1/4W	
D702	a-719-911-19	DIODE 1SS119		R734	1-249-420-11	CARBON 1.8K 5% 1/4W	
D703	8-719-911-19	DIODE 1SS119		R735	1-249-393-11	CARBON 10 5% 1/4W	
				R737	1-215-923-00	METAL OXIDE 10K 5% 3W F	
				R738	1-202-719-00	SOLID 1M 10% 1/2W	
				R739	1-202-842-11	SOLID 220K 10% 1/2W	
				R740	1-202-642-11	SOLID 220K 10% 1/2W	

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C E

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<VARIABLE RESISTOR>				<RESISTOR>			
RV701A	1-230-619-11	RES, ADJ, METAL GLAZE 110M		R551	1-216-037-00	METAL GLAZE 330 5%	1/10W
RV702	1-238-599-11	RES, ADJ, CARBON 4.7K		R552	1-216-029-00	METAL GLAZE 150 5%	1/10W
RV703	1-238-598-11	RES, ADJ, CARBON 2.2K		R553	1-216-039-00	METAL GLAZE 390 5%	1/10W
RV704	1-238-599-11	RES, ADJ, CARBON 4.7K		R554	1-216-043-00	METAL GLAZE 560 5%	1/10W
RV705	1-238-598-11	RES, ADJ, CARBON 2.2K		R555	1-216-675-11	METAL CHIP 10K 0.50%	1/10W
RV706	1-238-599-11	RES, ADJ, CARBON 4.7K		R556	1-216-073-00	METAL GLAZE 10K 5%	1/10W
RV707	1-238-601-11	RES, ADJ, CARBON 22K		R557	1-215-869-11	METAL GLAZE 1W 5%	1W F
RV708	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M		R558	1-216-047-00	METAL OKAME 8K 5%	1W F
*****				R559	1-216-083-00	METAL GLAZE 27K 5%	1/10W
A-1345-953-A E BOARD, COMPLETE				R561	1-216-371-00	METAL OXIDE 1.5 5%	2W F
*****				R562	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
<CAPACITOR>				R563	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
C551	1-124-925-11	ELECT 2.2MF 20% 50V		R564	1-216-029-00	METAL GLAZE 150 5%	1/10W
C553	1-124-907-11	ELECT 10MF 20% 50V		R566	1-216-295-00	METAL GLAZE 0 5%	1/10W
C554	1-126-329-11	ELECT 470MF 10% 50V		R567	1-216-081-00	METAL GLAZE 22K 5%	1/10W
C556	1-124-925-11	ELECT 2.2MF 20% 50V		R568	1-247-700-11	CARBON 100 5%	1/4W F
C557	1-124-925-11	ELECT 2.2MF 20% 50V		R570	1-216-063-00	METAL GLAZE 3.9K 5%	1/10W
C558	1-124-922-11	ELECT 1000MF 20% 50V		R571	1-216-085-00	METAL GLAZE 33K 5%	1/10W
C575	1-124-478-11	ELECT 100MF 20% 25V		R588	1-216-089-00	METAL GLAZE 47K 5%	1/10W
C578	1-124-480-11	ELECT 470MF 20% 25V		R1517	1-215-920-11	METAL OXIDE 3.3K 5%	3W F
C1520	1-106-351-00	MYLAR 0.0022MF 10% 100V		R1520	1-216-091-00	METAL GLAZE 56K 5%	1/10W
C1522	1-124-925-11	ELECT 2.2MF 20% 50V		R1521	1-216-063-00	METAL GLAZE 3.9K 5%	1/10W
C1534	1-106-351-00	MYLAR 0.0022MF 10% 100V		R1522	1-216-097-00	METAL GLAZE 100K 5%	1/10W
C1536	1-106-383-00	MYLAR 0.047MF 10% 100V		R1523	1-216-073-00	METAL GLAZE 10K 5%	1/10W
C1538	1-124-907-11	ELECT 10MF 20% 50V		R1524	1-216-073-00	METAL GLAZE 10K 5%	1/10W
C1539	1-124-925-11	ELECT 2.2MF 20% 50V		R1525	1-216-073-00	METAL GLAZE 10K 5%	1/10W
C1540	1-106-343-00	MYLAR 0.001MF 10% 100V		R1526	1-216-073-00	METAL GLAZE 10K 5%	1/10W
C1541	1-124-927-11	ELECT 4.7MF 20% 50V		R1527	1-216-295-00	METAL GLAZE 0 5%	1/10W
C1542	1-124-927-11	ELECT 4.7MF 20% 50V		R1528	1-216-295-00	METAL GLAZE 0 5%	1/10W
C1543	1-124-925-11	ELECT 2.2MF 20% 50V		R1529	1-216-103-00	METAL GLAZE 180K 5%	1/10W
C1544	1-124-927-11	ELECT 4.7MF 20% 50V		R1530	1-216-081-00	METAL GLAZE 22K 5%	1/10W
C1545	1-124-767-00	ELECT 2.2MF 20% 50V		R1531	1-216-049-00	METAL GLAZE 1K 5%	1/10W
C1548	1-124-925-11	ELECT 2.2MF 20% 50V		R1532	1-216-049-00	METAL GLAZE 1K 5%	1/10W
<DIODE>				R1533	1-216-033-00	METAL GLAZE 220 5%	1/10W
D551	g-719-404-46	DIODE MA110		R1534	1-216-025-00	METAL GLAZE 100 5%	1/10W
D552	8-719-110-72	DIODE RD30ES-B2		R1535	1-216-097-00	METAL GLAZE 100K 5%	1/10W
D555	8-719-911-55	DIODE U05G		R1536	1-216-097-00	METAL GLAZE 100K 5%	1/10W
D1520	8-719-109-88	DIODE RD5.6ES-B1		R1537	1-216-081-00	METAL GLAZE 22K 5%	1/10W
D1521	8-719-404-46	DIODE MA110		R1538	1-216-113-00	METAL GLAZE 470K 5%	1/10W
D1522	8-719-404-46	DIODE MA110		R1539	1-216-113-00	METAL GLAZE 470K 5%	1/10W
D1523	a-719-404-46	DIODE MA110		R1540	1-216-105-00	METAL GLAZE 220K 5%	1/10W
D1524	8-719-404-46	DIODE MA110		R1541	1-216-073-00	METAL GLAZE 10K 5%	1/10W
<CONNECTOR>				R1544	1-216-097-00	METAL GLAZE 100K 5%	1/10W
E5	1-573-301-11	CONNECTOR, BOARD TO BOARD 20P		R1545	1-216-073-00	METAL GLAZE 10K 5%	1/10W
<IC>				R1546	1-216-295-00	METAL GLAZE 0 5%	1/10W
IC551	8-759-945-58	IC RC4558P		R1547	1-216-075-00	METAL GLAZE 12K 5%	1/10W
IC552	8-759-929-62	IC LM7812CT		R1548	1-216-097-00	METAL GLAZE 100K 5%	1/10W
<TRANSISTOR>				R1549	1-216-079-00	METAL GLAZE 18K 5%	1W F
Q558	8-729-920-74	TRANSISTOR 2SC2412K-QR		R1550	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
41520	8-729-920-74	TRANSISTOR 2SC2412K-QR		R1551	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
<VARIABLE RESISTOR>				R1552	1-216-085-00	METAL GLAZE 33K 5%	1/10W
RV550	1-237-288-11	RES, ADJ, CARBON 47K		R1553	1-216-081-00	METAL GLAZE 22K 5%	1/10W
RV551	1-238-543-11	RES, ADJ, CARBON 470		R1554	1-247-753-11	CARBON 1.2K 5%	1/2W
RV552	1-238-550-11	RES, ADJ, CARBON 100K		R1561	1-247-753-11	CARBON 1.2K 5%	1/2W
RV553	1-237-288-11	RES, ADJ, CARBON 47K		R1571	1-215-920-11	METAL OXIDE 3.3K 5%	3W F



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RV554	I-230-494-11	RES, ADJ, CARBON 1K		C137	I-164-066-11	CERAMIC 68PF	5% 50V
RV555	I-238-550-11	RES, ADJ, CARBON 100K		C138	I-164-066-11	CERAMIC 68PF	5% 50V
RV556	I-238-550-11	RES, ADJ, CARBON 100K					
RV562	I-230-945-11	RES, ADJ, CARBON 470K		C139	I-164-066-11	CERAMIC 68PF	5% 50V
RV563	I-238-076-11	RES, ADJ, CARBON 5K		C140	I-164-066-11	CERAMIC 68PF	5% 50V
				C141	I-164-066-11	CERAMIC 68PF	5% 50V
				C142	I-124-903-11	ELECT 1MF	20% 50V
<SWITCH>				C143	I-124-360-00	ELECT 1000MF	20% 16V
S551	I-554-186-00	SWITCH, LEVER		C172	I-101-006-00	CERAMIC 0.047MF	50V
				C173	I-102-125-00	CERAMIC 0.0047MF	10% 50V
*****				C174	I-126-935-11	ELECT 470MF	20% 16V
				C176	I-126-935-11	ELECT 470MF	20% 16V
				C329	I-124-631-11	ELECT 47MF	20% 16V
*A-1346-039-A D BOARD, COMPLETE							
*****							
(KV-27TW75(U),KV-27TW76(U) ONLY)				C345	I-124-907-11	ELECT 10MF	20% 50V
*A-1346-038-A D BOARD, COMPLETE				C346	I-124-903-11	ELECT 1MF	20% 50V
*****				C351	I-124-907-11	ELECT 10MF	20% 50V
(KV-27TW75(C),KV-27TW76(C) ONLY)				C352	I-124-907-11	ELECT 10MF	20% 50V
				C353	I-124-477-11	ELECT 47MF	20% 16V
*4-032-238-01 SHIELD, TRANSFORMER							
*4-032-240-01 SUPPORT, B				C354	I-124-477-11	ELECT 47MF	20% 16V
*4-032-369-01 SHEET, RADIATION				C355	I-126-233-11	ELECT 22MF	20% 25V
*4-341-751-01 EYELET (EY19,EY20,EY25~EY35,EY38~44, EY46,EY48~EY52,EY77,EY78,EY85~EY108)				C356	I-126-233-11	ELECT 22MF	20% 25V
				C357	I-124-478-11	ELECT 100MF	20% 25V
				C358	I-124-478-11	ELECT 100MF	20% 25V
*4-341-752-01 EYELET (EY1,EY2,EY4~EY17,EY21~EY24,EY53, EY54,EY59,EY61,EY62,EY64,EY66~EY68,EY70~EY72,EY79~EY84)				C359	I-101-004-00	CERAMIC 0.01MF	50V
				C360	I-101-004-00	CERAMIC 0.01MF	50V
*4-381-724-01 HOLDER, IC				C361	I-124-902-00	ELECT 0.47MF	20% 50V
4-382-854-11 SCREW (M3X10), P. SW (+)				C363	I-124-477-11	ELECT 47MF	20% 16V
				C430	I-126-233-11	ELECT 22MF	20% 25V
*4-393-401-01 SPRING							
				C431	I-124-907-11	ELECT 10MF	20% 50V
				C432	I-136-167-00	FILM 0.15MF	5% 50V
<CAPACITOR>				C433	I-136-153-00	FILM 0.01MF	5% 50V
C101	I-124-907-11	ELECT 10MF	50V	C434	I-136-153-00	FILM 0.01MF	5% 50V
C102	I-126-101-11	ELECT 100MF	20% 16V	C435	I-136-167-00	FILM 0.15MF	5% 50V
C104	I-126-101-11	ELECT 100MF	5% 16V				
C105	I-130-481-00	MYLAR 0.0068MF	5% 50V	C436	I-124-907-11	ELECT 10MF	20% 50V
C106	I-130-483-00	MYLAR 0.01MF	50V	C437	I-136-161-00	FILM 0.047MF	5% 50V
				C438	I-124-360-00	ELECT 1000MF	20% 16V
C107	I-124-499-11	ELECT 1MF	20% 50V	C439	I-124-119-00	ELECT 330MF	20% 16V
C108	I-124-499-11	ELECT 1MF	20% 50V	C440	I-124-907-11	ELECT 10MF	20% 50V
C109	I-124-499-11	ELECT 1MF	20% 50V				
C110	I-124-903-11	ELECT 1MF	20% 50V	C441	I-124-907-11	ELECT 10MF	20% 50V
C111	I-164-039-11	CERAMIC 3PF	0.25PF 50V	C442	I-124-907-11	ELECT 10MF	20% 50V
				C445	I-124-903-11	ELECT 1MF	20% 50V
C112	I-126-233-11	ELECT 22MF	20% 50V	C446	I-124-903-11	ELECT 1MF	20% 50V
C113	I-164-054-11	CERAMIC 22PF	5% 50V	C501	I-136-173-00	FILM 0.47MF	5% 50V
C114	I-124-907-11	ELECT 10MF	20% 50V				
C115	I-124-907-11	ELECT 10MF	20% 50V	C502	I-164-081-11	CERAMIC 470PF	10% 50V
C116	I-124-907-11	ELECT 10MF	20% 50V	C503	I-102-244-00	CERAMIC 220PF	10% 500V
				C504	I-136-187-61	FILM 0.047MF	10% 250V
C117	I-124-907-11	ELECT 10MF	20% 50V	C505	I-162-116-00	CERAMIC 680PF	10% 2KV
C118	I-124-907-11	ELECT 10MF	20% 50V	C506	I-162-116-00	CERAMIC 680PF	10% 2KV
C119	I-126-233-11	ELECT 22MF	20% 50V				
C120	I-130-483-00	MYLAR 0.01MF	5% 50V	C507	I-106-371-00	MYLAR 0.015MF	5% 100V
C121	I-101-006-00	CERAMIC 0.047MF	50V	C508	△ I-162-115-91	CERAMIC 330PF	10% 2KV
				C509	I-123-024-21	ELECT 33MF	5% 160V
C122	I-164-066-11	CERAMIC 68PF	5% 50V	C510	I-106-395-00	MYLAR 0.15MF	10% 200V
C123	I-136-161-00	FILM 0.047MF	5% 50V	C511	I-136-113-00	FILM 2MF	5% 200V
C124	I-102-978-00	CERAMIC 220PF	5% 50V				
C125	I-124-903-11	ELECT 1MF	20% 50V	C512	I-124-634-11	ELECT 1MF	20% 250V
C126	I-124-907-11	ELECT 10MF	20% 50V	C513	I-164-081-11	CERAMIC 470PF	10% 50V
				C514	I-102-228-00	CERAMIC 470PF	10% 500V
C127	I-164-082-11	CERAMIC 560PF	10% 50V	C515	△ I-137-347-11	FILM 0.022MF	3% 2KV
C128	I-124-477-11	ELECT 47MF	20% 16V	C516	△ I-136-316-51	FILM 0.056MF	5% 630V
C129	I-130-479-00	MYLAR 0.0047MF	5% 50V				
C131	I-124-443-00	ELECT 100MF	20% 10V	C517	I-136-124-00	FILM 0.56MF	5% 400V
C133	I-126-935-11	ELECT 470MF	20% 16V	C518	I-162-318-11	CERAMIC 0.001MF	10% 500V
				C519	I-124-046-00	ELECT 10MF	20% 160V
C134	I-124-360-00	ELECT 1000MF	20% 16V	C520	I-102-228-00	CERAMIC 470PF	10% 500V
C135	I-124-360-00	ELECT 1000MF	20% 16V	C521	I-162-117-00	CERAMIC 100PF	10% 500V
C136	I-164-066-11	CERAMIC 68PF	5% 50V				
				C522	I-124-922-11	ELECT 1000MF	20% 50V

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KV-27TW75/27TW76  
RM-Y102


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
REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C523	1-162-117-00	CERAMIC	100PF 10%			<CONNECTOR>	
C524	1-124-557-11	ELECT	1000MF 20%	D1	*1-564-508-11	PLUG, CONNECTOR 5P	
C525	1-123-947-00	ELECT	10MF 20%	D2	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P	
C526	1-162-114-00	CERAMIC	0.0047MF 20%	D3	1-573-298-11	CONNECTOR, BOARD TO BOARD 20P	
C527	1-106-383-00	MYLAR	0.047MF 200V	D4	1-573-298-11	CONNECTOR, BOARD TO BOARD 20P	
C528	1-106-367-00	MYLAR	0.01MF 5%	D5	1-573-298-11	CONNECTOR, BOARD TO BOARD 20P	
C529	1-124-607-11	ELECT	2200MF 20%	D7	1-573-297-11	CONNECTOR, BOARD TO BOARD 18P	
C530	1-124-122-11	ELECT	100MF 20%	D8	*1-564-506-11	PLUG, CONNECTOR 3P	
C532	1-102-030-00	CERAMIC	330PF 10%	D9	*1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P	
C534	1-102-125-00	CERAMIC	0.0047MF 10%	D10	1-573-297-11	CONNECTOR, BOARD TO BOARD 18P	
C535	1-123-932-00	ELECT	4.7MF 20%	D15	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)	
C536	1-124-477-11	ELECT	47MF 20%	D18	*1-564-507-11	PLUG, CONNECTOR 4P	
C537	1-164-085-11	CERAMIC	0.001MF 10%	D20	*1-564-513-11	PLUG, CONNECTOR 10P	
C539	1-161-959-00	CERAMIC	22PF 10%	DY1	*1-568-536-11	PLUG (MINIATURE DY) 6P	
C540	1-102-030-00	CERAMIC	330PF 10%	JL21	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
C542	1-124-046-00	ELECT	10MF 20%			<DIODE>	
C543	1-136-157-00	FILM	0.022MF 5%	D101	a-719-110-78	DIODE RD33ES-B2	
C599	1-123-024-21	ELECT	33MF 160"	D103	g-719-109-74	DIODE RD4.3ES-B1	
C602	1-101-006-00	CERAMIC	0.047MF 50V	D104	g-719-911-19	DIODE 1SS119	
C603	1-136-165-00	FILM	0.1MF 5%	D106	8-719-911-19	DIODE 1SS119	
C604	1-164-646-11	CERAMIC	2200PF 10%	D107	1-809-401-11	LED UNIT	
C606	$\Delta$ 1-162-578-51	CERAMIC	0.0047MF 20%	D108	1-809-401-11	LED UNIT	
C607	$\Delta$ 1-162-578-51	CERAMIC	0.0047MF 20%	D109	8-719-911-19	DIODE 1SS119	
C608	$\Delta$ 1-125-692-11	ELECT (BLOCK)	820MF 20%	D110	8-719-911-19	DIODE 1SS119	
C609	1-164-645-11	CERAMIC	1000PF 10%	D111	g-719-911-19	DIODE 1SS119	
C610	1-136-165-00	FILM	0.1MF 5%	D112	8-719-911-19	DIODE 1SS119	
C611	1-164-646-11	CERAMIC	2200PF 10%	D113	g-719-911-19	DIODE 1SS119	
C612	1-130-959-00	FILM	0.047MF 10%	D114	8-719-911-19	DIODE 1SS119	
C613	1-130-959-00	FILM	0.047MF 10%	D115	8-719-109-84	DIODE RD5.1ES-B1	
C614	1-164-645-11	CERAMIC	1000PF 10%	D116	8-719-109-84	DIODE RD5.1ES-B1	
C615	1-123-024-21	ELECT	33MF 160V	D117	8-719-911-19	DIODE 1SS119	
C616	1-164-644-11	CERAMIC	330PF 10%	D118	8-719-911-19	DIODE 1SS119	
C617	1-136-165-00	FILM	0.1MF 5%	D119	8-719-109-84	DIODE RD5.1ES-B1	
C618	1-124-119-00	ELECT	330MF 20%	D120	8-719-911-19	DIODE 1SS119	
C619	1-124-557-11	ELECT	1000MF 20%	D431	8-719-911-19	DIODE 1SS119	
C620	1-124-360-00	ELECT	1000MF 20%	D432	S-719-911-19	DIODE 1SS119	
C621	1-124-557-11	ELECT	1000MF 20%	D433	8-719-911-19	DIODE 1SS119	
C622	1-102-125-00	CERAMIC	0.0047MF 10%	D434	8-719-911-19	DIODE 1SS119	
C623	1-124-119-00	ELECT	330MF 20%	D504	S-719-945-80	DIODE ERC06-15S	
C624	$\Delta$ 1-162-577-51	CERAMIC	0.0022MF 20%	D505	R-719-945-80	DIODE ERC06-15S	
C625	1-126-101-11	ELECT	100MF 20%	D506	8-719-900-26	DIODE ERD29-08J	
C626	$\Delta$ 1-162-577-51	CERAMIC	0.0022MF 20%	D507	8-719-302-43	DIODE EL1Z	
C627	1-102-125-00	CERAMIC	0.0047MF 10%	D508	g-719-971-20	DIODE ERC38-06	
C633	1-126-101-11	ELECT	100MF 20%	D509	8-719-979-85	DIODE EGP20G	
C634	1-124-478-11	ELECT	100MF 20%	D510	8-719-300-33	DIODE RU-3AM	
C635	1-126-101-11	ELECT	100MF 20%	D511	8-719-976-64	DIODE RGP02-17	
C636	1-124-907-11	ELECT	10MF 20%	D512	8-719-200-02	DIODE 10E2	
C639	1-126-233-11	ELECT	22MF 20%	D516	8-719-911-19	DIODE 1SS119	
C650	1-124-119-00	ELECT	330MF 20%	D517	g-719-109-92	DIODE RD6.2ES-B1	
		<BLOCK>		D531	1-130-777-71	FILM 0.1MF 10%	100V
CM51	1-466-162-31	BLOCK, COM FILTER (CFB-4)		D533	1-130-777-71	FILM 0.1MF 10%	100"
		<NETWORK>		D601	8-719-911-19	DIODE 1SS119	
CP101	1-236-524-11	NETWORK, C		D602	$\Delta$ 8-719-510-63	DIODE D4SB60L-F	
CP102	1-236-479-11	NETWORK, C		D603	8-719-510-48	DIODE D1N20R	
CP103	1-236-301-11	NETWORK, C		D604	a-719-510-48	DIODE D1N20R	
CP104	1-236-300-11	NETWORK, C		D605	8-719-510-48	DIODE D1N20R	
CP105	1-236-524-11	NETWORK, C		D606	8-719-510-48	DIODE D1N20R	
CP106	1-236-301-11	NETWORK, C		D607	8-719-510-64	DIODE S2LA20F	
CP107	1-236-479-11	NETWORK, C		D608	g-719-510-64	DIODE S2LA20F	
CP108	1-236-358-21	NETWORK, RES		D609	a-719-510-64	DIODE S2LA20F	

# D

The components identified by shading and mark  are critical for safety  
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—68—

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et par une marque  sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R122	1-249-409-11	CARBON	220 5% 1/4W	R189	1-249-429-11	CARBON	10K 5% 1/4W
R123	1-249-409-11	CARBON	220 5% 1/4W	R190	1-249-429-11	CARBON	10K 5% 1/4W
R124	1-249-409-11	CARBON	220 5% 1/4W	R191	1-249-429-11	CARBON	10K 5% 1/4W
R125	1-249-430-11	CARBON	12K 5% 1/4W	R192	1-249-427-11	CARBON	6.8K 5% 1/4W
R126	1-215-433-00	KETAL	3.3K 1% 1/4W	R193	1-249-425-11	CARBON	4.7K 5% 1/4W
R127	1-215-425-00	METAL	1.5K 1% 1/4W	R194	1-249-429-11	CARBON	10K 5% 1/4W
R128	1-249-431-11	CARBON	15K 5% 1/4W	R195	1-249-429-11	CARBON	10K 5% 1/4W
R129	1-249-417-11	CARBON	1K 5% 1/4W	R196	1-249-429-11	CARBON	10K 5% 1/4W
R130	1-249-421-11	CARBON	2.2K 5% 1/4W	R197	1-249-423-11	CARBON	3.3K 5% 1/4W
R131	1-249-429-11	CARBON	10K 5% 1/4W	R199	1-249-429-11	CARBON	10K 5% 1/4W
R132	1-249-429-11	CARBON	10K 5% 1/4W	R345	1-249-425-11	CARBON	4.7K 5% 1/4W
R133	1-249-409-11	CARBON	220 5% 1/4W	R346	1-249-436-11	CARBON	39K 5% 1/4W
R134	1-249-409-11	CARBON	220 5% 1/4W	R347	1-249-435-11	CARBON	33K 5% 1/4W
R135	1-249-409-11	CARBON	220 5% 1/4W	R348	1-249-429-11	CARBON	10K 5% 1/4W
R136	1-249-409-11	CARBON	220 5% 1/4W	R349	1-249-429-11	CARBON	10K 5% 1/4W
R137	1-249-409-11	CARBON	220 5% 1/4W	R350	1-249-429-11	CARBON	10K 5% 1/4W
R138	1-249-409-11	CARBON	220 5% 1/4W	R351	1-249-429-11	CARBON	10K 5% 1/4W
R139	1-249-409-11	CARBON	220 5% 1/4W	R352	1-249-425-11	CARBON	4.7K 5% 1/4W
R140	1-249-409-11	CARBON	220 5% 1/4W	R353	1-249-417-11	CARBON	1K 5% 1/4W
R141	1-249-409-11	CARBON	220 5% 1/4W	R354	1-249-414-11	CARBON	560 5% 1/4W
R142	1-249-409-11	CARBON	220 5% 1/4W	R355	1-249-414-11	CARBON	560 5% 1/4W
R143	1-249-409-11	CARBON	220 5% 1/4W	R356	1-249-414-11	CARBON	560 5% 1/4W
R144	1-249-409-11	CARBON	220 5% 1/4W	R357	1-249-414-11	CARBON	560 5% 1/4W
R145	1-249-421-11	CARBON	2.2K 5% 1/4W	R358	1-249-414-11	CARBON	560 5% 1/4W
R146	1-249-421-11	CARBON	2.2K 5% 1/4W	R359	1-249-414-11	CARBON	560 5% 1/4W
R147	1-249-421-11	CARBON	2.2K 5% 1/4W	R360	1-249-415-11	CARBON	680 5% 1/4W
R148	1-249-409-11	CARBON	220 5% 1/4W	R361	1-249-417-11	CARBON	1K 5% 1/4W
R149	1-249-409-11	CARBON	220 5% 1/4W	R363	1-249-405-11	CARBON	100 5% 1/4W
R150	1-249-409-11	CARBON	220 5% 1/4W	R364	1-249-429-11	CARBON	10K 5% 1/4W
R151	1-249-429-11	CARBON	10K 5% 1/4W	R365	1-249-437-11	CARBON	47K 5% 1/4W
R152	1-249-409-11	CARBON	220 5% 1/4W	R367	1-249-415-11	CARBON	680 5% 1/4W
R153	1-249-429-11	CARBON	10K 5% 1/4W	R369	1-249-405-11	CARBON	100 5% 1/4W
R154	1-249-437-11	CARBON	47K 5% 1/4W	R431	1-249-425-11	CARBON	4.7K 5% 1/4W
R155	1-249-417-11	CARBON	1K 5% 1/4W	R432	1-249-425-11	CARBON	4.7K 5% 1/4W
R156	1-249-409-11	CARBON	220 5% 1/4W	R433	1-249-425-11	CARBON	4.7K 5% 1/4W
R157	1-249-417-11	CARBON	1K 5% 1/4W	R434	1-249-426-11	CARBON	5.6K 5% 1/4W
R158	1-249-429-11	CARBON	10K 5% 1/4W	R435	1-249-426-11	CARBON	5.6K 5% 1/4W
R159	1-249-429-11	CARBON	10K 5% 1/4W	R436	1-249-426-11	CARBON	5.6K 5% 1/4W
R160	1-249-405-11	CARBON	100 5% 1/4W	R437	1-249-426-11	CARBON	5.6K 5% 1/4W
R161	1-215-923-00	KETAL OXIDE	10K 5% 3W F	R438	1-249-423-11	CARBON	3.3K 5% 1/4W
R162	1-249-417-11	CARBON	1K 5% 1/4W	R439	1-249-425-11	CARBON	4.7K 5% 1/4W
R163	1-247-883-00	CARBON	150K 5% 1/4W	R440	1-249-428-11	CARBON	8.2K 5% 1/4W
R164	1-249-437-11	CARBON	47K 5% 1/4W	R441	1-249-428-11	CARBON	8.2K 5% 1/4W
R165	1-247-883-00	CARBON	150K 5% 1/4W	R442	1-249-421-11	CARBON	2.2K 5% 1/4W
R166	1-249-437-11	CARBON	47K 5% 1/4W	R443	1-249-417-11	CARBON	1K 5% 1/4W
R167	1-249-437-11	CARBON	47K 5% 1/4W	R444	1-249-423-11	CARBON	3.3K 5% 1/4W
R169	1-249-427-11	CARBON	6.8K 5% 1/4W	R445	1-249-429-11	CARBON	10K 5% 1/4W
R170	1-249-429-11	CARBON	10K 5% 1/4W	R446	1-249-429-11	CARBON	10K 5% 1/4W
R171	1-249-435-11	CARBON	33K 5% 1/4W	R447	1-249-405-11	CARBON	100 5% 1/4W
R172	1-215-445-00	METAL	10K 1% 1/4W	R448	1-249-417-11	CARBON	1K 5% 1/4W
R173	1-215-437-00	METAL	4.7K 1% 1/4W	R449	1-249-405-11	CARBON	100 5% 1/4W
R174	1-249-428-11	CARBON	8.2K 5% 1/4W	R450	1-249-391-11	CARBON	6.8 5% 1/4W
R175	1-249-425-11	CARBON	4.7K 5% 1/4W	R451	1-249-402-11	CARBON	56 5% 1/4W
R176	1-249-440-11	CARBON	82K 5% 1/4W	R452	1-249-409-11	CARBON	220 5% 1/4W
R177	1-215-439-00	METAL	5.6K 1% 1/4W	R455	1-249-417-11	CARBON	1K 5% 1/4W
R178	1-215-437-00	METAL	4.7K 1% 1/4W	R456	1-249-405-11	CARBON	100 5% 1/4W
R179	1-249-427-11	CARBON	6.8K 5% 1/4W	R457	1-249-405-11	CARBON	100 5% 1/4W
R181	1-249-425-11	CARBON	4.7K 5% 1/4W	R494	1-249-405-11	CARBON	100 5% 1/4W
R182	1-249-409-11	CARBON	220 5% 1/4W	R497	1-249-405-11	CARBON	100 5% 1/4W
R184	1-249-429-11	CARBON	10K 5% 1/4W	R501	1-249-405-11	CARBON	100 5% 1/4W
R186	1-247-903-00	CARBON	1M 5% 1/4W	R502	1-249-423-11	CARBON	3.3K 5% 1/4W
R187	1-249-441-11	CARBON	100K 5% 1/4W	R503	1-249-426-11	CARBON	5.6K 5% 1/4W F
R188	1-247-903-00	CARBON	1M 5% 1/4W	R504	1-215-918-51	METAL OXIDE	1.5K 5% 3W F

D V

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The components identified by  
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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R505	1-216-342-11	METAL OXIDE 0.27 5% 1W	F	R640	1-216-379-11	METAL OXIDE 6.8 5% 2W	F
R506	1-249-401-11	CARBON 47 5% 1/4W		<del>R645</del>	<del>1122693393111</del>	<del>METAL OXIDE 6.8 5% 2W</del>	<del>F</del>
R507	1-249-427-11	CARBON 6.8K 5% 1/4W		R647	1-249-385-11	CARBON 2.2 5% 1/4W	F
R508	1-249-455-11	CARBON 4.7 5% 1/4W	F	R648	1-249-393-11	CARBON 10 5% 1/4W	F
R509	1-249-423-11	CARBON 3.3K 5% 1/4W		R649	1-249-409-11	CARBON 220 5% 1/4W	
R510	1-215-896-00	METAL OXIDE 4.7K 5% 2W	F	R650	1-247-713-11	CARBON 1K 5% 1/4W	F
R512	1-215-861-00	METAL OXIDE 47 5% 1W	F	R651	1-249-377-11	CARBON 0.47 5% 1/4W	F
R513	1-249-417-11	CARBON 1K 5% 1/4W		R652	1-249-377-11	CARBON 0.47 5% 1/4W	F
R514	<del>1-249-415-91</del>	<del>CARBON 680 5% 1/4W</del>	<del>F</del>	R653	1-249-377-11	CARBON 0.47 5% 1/4W	F
R515	1-249-421-11	CARBON 2.2K 5% 1/4W		R654	1-249-377-11	CARBON 0.47 5% 1/4W	F
R517	1-249-417-11	CARBON 1K 5% 1/4W		R655	1-249-377-11	CARBON 0.47 5% 1/4W	F
R518	1-249-417-11	CARBON 1K 5% 1/4W		R656	1-249-377-11	CARBON 0.47 5% 1/4W	F
R519	1-249-405-11	CARBON 100 5% 1/4W		R657	1-249-377-11	CARBON 0.47 5% 1/4W	F
R520	1-249-389-11	CARBON 4.7 5% 1/4W	F	R658	1-249-377-11	CARBON 0.47 5% 1/4W	F
R521	1-249-448-11	CARBON 1.2 5% 1/4W	F	R659	1-249-377-11	CARBON 0.47 5% 1/4W	F
R522	1-216-375-00	METAL OXIDE 3.3 5% 2W	F	<VARIABLE RESISTOR>			
R523	<del>1-216-345-91</del>	<del>METAL OXIDE 0.47 5% 1W</del>	<del>F</del>	RV101	1-238-023-11	RES, ADJ, CARBON 470K	
R524	1-216-373-11	METAL OXIDE 2.2 5% 2W	F	<SWITCH>			
R525	<del>1-249-448-91</del>	<del>CARBON 1.2 5% 1/4W</del>	<del>F</del>	S101	<del>1-571-532-23</del>	<del>SWITCH, TACTIL (POWER)</del>	
R526	<del>1-216-434-91</del>	<del>METAL OXIDE 1.8K 5% 1W</del>	<del>F</del>	S102	1-571-532-21	SWITCH, TACTIL	
R527	1-216-429-00	METAL OXIDE 270 5% 1W	F	S103	1-571-532-21	SWITCH, TACTIL	
R529	1-249-429-11	CARBON 10K 5% 1/4W		S104	1-571-532-21	SWITCH, TACTIL	
R530	1-249-436-11	CARBON 39K 5% 1/4W		S105	1-571-532-21	SWITCH, TACTIL	
R534	1-249-435-11	CARBON 33K 5% 1/4W		S106	1-571-532-21	SWITCH, TACTIL	
R535	1-215-373-31	METAL 10 1% 1/4W		<SPARK GAP>			
R536	1-249-425-11	CARBON 4.7K 5% 1/4W		SG501	1-519-422-11	GAP, SPARK	
R538	1-202-838-00	SOLID 100K 10% 1/2W		<TRANSFORMER>			
R539	1-202-838-00	SOLID 100K 10% 1/2W		T501	<del>1-437-195-13</del>	<del>TRANSFORMER, HORIZONTAL DRIVE</del>	
R540	1-202-838-00	SOLID 100K 10% 1/2W		T502	<del>1-424-545-21</del>	<del>TRANSFORMER, FERRITE (PMT)</del>	
R541	1-202-838-00	SOLID 100K 10% 1/2W		T503	<del>1-439-502-11</del>	<del>TRANSFORMER ASSY, FLYBACK (NX-2600A3)</del>	
<del>R542</del>	<del>Δ</del>	<del>METAL 1/4W</del>		T603	<del>1-450-270-12</del>	<del>TRANSFORMER, CONVERTER (CDT)</del>	
<del>R543</del>	<del>Δ</del>	<del>METAL 1/4W</del>		T604	<del>1-450-559-11</del>	<del>TRANSFORMER, CONVERTER (PRT)</del>	
R544	1-249-429-11	CARBON 10K 5% 1/4W		T605	<del>1-450-560-11</del>	<del>TRANSFORMER, FERRITE (SBT)</del>	
R545	1-249-417-11	CARBON 1K 5% 1/4W		<TUNER>			
R546	1-249-417-11	CARBON 1K 5% 1/4W	F	TU101	<del>1-465-371-11</del>	<del>TUNER, ET (BTP-RA401)</del>	
R547	1-202-833-11	SOLID 18K 10% 1/2W			<del>1-465-371-21</del>	<del>TUNER, ET (RTP-RA401)</del>	
R548	1-216-369-00	METAL OXIDE 1 5% 2W	F			(KV-27TW75(C), KV-27TW76(C) ONLY)	
R603	1-215-900-11	METAL OXIDE 22K 5% 2W	F	<CRYSTAL>			
R604	<del>1-216-444-91</del>	<del>METAL OXIDE 82K 5% 1W</del>	<del>F</del>	X101	I-577-082-11	VIBRATOR, CERAMIC	
R605	1-216-369-00	METAL OXIDE 1 5% 2W	F	*****			
R606	1-215-878-00	METAL OXIDE 33K 5% 1W	F	A-1347-053-A V BOARD! COMPLETE			
R607	1-216-377-11	METAL OXIDE 4.7 5% 2W	F	*****			
R609	1-216-369-00	METAL OXIDE 1 5% 2W	F	<CAPACITOR>			
R610	1-215-878-00	METAL OXIDE 33K 5% 1W	F	CI201	1-124-903-11	ELECT 1MF 20% 50V	
R611	1-207-645-00	WIREWOUND 0.47 5% 3W	F	CI202	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
R612	1-215-417-00	METAL 680 1% 1/4W		CI203	1-124-903-11	ELECT 1MF 20% 50V	
R613	1-215-477-00	METAL 220K 1% 1/4W					
R614	1-249-441-11	CARBON 100K 5% 1/4W					
R615	1-249-429-11	CARBON 10K 5% 1/4W					
R616	1-247-895-00	CARBON 470K 5% 1/4W					
R617	1-216-377-11	METAL OXIDE 4.7 5% 2W	F				
R619	1-249-421-11	CARBON 2.2K 5% 1/4W					
R620	1-247-708-11	CARBON 470 5% 1/4W	F				
R621	1-249-429-11	CARBON 10K 5% 1/4W					
R622	1-247-747-11	CARBON 470 5% 1/2W	F				
R623	1-249-405-11	CARBON 100 5% 1/4W	F				
R626	1-249-389-11	CARBON 4.7 5% 1/4W	F				
R628	1-249-423-11	CARBON 3.3K 5% 1/4W					
R629	1-249-416-11	CARBON 820 5% 1/4W					
R630	1-249-416-11	CARBON 820 5% 1/4W					
R631	<del>1-202-730-91</del>	<del>SOLID 8.2M 10% 1/2W</del>	<del>F</del>				
R632	1-215-892-11	METAL OXIDE 1K 5% 2W	F				
R633	1-216-426-11	METAL OXIDE 82 5% 1W	F				

- The components identified by □ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C1204	1-124-903-11	ELECT	1MF 20% 50V	C1271	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C1205	1-124-927-11	ELECT	4.7MF 20% 50V	C1272	1-124-477-11	ELECT 47MF 20% 16V	
C1206	1-163-117-00	CERAMIC CHIP	100PF 5% 50V	C1273	1-124-477-11	ELECT 47MF 20% 16V	
C1207	1-124-927-11	ELECT	4.7MF 20% 50V	C1275	1-164-161-11	CERAMIC CHIP 0.0022MF 10% 50V	
C1208	1-163-117-00	CERAMIC CHIP	100PF 5% 50V	C1276	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C1209	1-126-101-11	ELECT	100MF 20% 16V	C1277	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C1210	1-163-037-11	CERAMIC CHIP	0.022MF 10% 25V	C1278	1-136-165-00	FILM 0.1MF 5% 50V	
C1211	1-163-093-00	CERAMIC CHIP	10PF 5% 50V	C1279	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C1212	1-163-093-00	CERAMIC CHIP	10PF 5% 50V	C1280	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C1213	1-163-141-00	CERAMIC CHIP	0.001MF 5% 50V	C1281	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C1214	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	C1282	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C1215	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	C1283	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C1216	1-163-101-00	CERAMIC CHIP	22PF 5% 50V	C1287	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C1217	1-163-141-00	CERAMIC CHIP	0.001MF 5% 50V	C1288	1-126-103-11	ELECT 470MF 20% 16V	
C1218	1-163-101-00	CERAMIC CHIP	22PF 5% 50V	C1290	1-163-101-00	CERAMIC CHIP 22PF 5% 50V	
C1219	1-163-113-00	CERAMIC CHIP	68PF 5% 50V	<DIODE>			
C1220	1-163-113-00	CERAMIC CHIP	68PF 5% 50V	D1202	g-719-404-46	DIODE MA110	
C1221	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	<FILTER>			
C1222	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	FL1200	1-239-140-11	FILTER, LOW PASS	
C1223	1-124-925-11	ELECT	2.2MF 20% 50V	<IC>			
C1224	1-124-925-11	ELECT	2.2MF 20% 50V	IC1200	8-759-517-74	IC MB81461-12-PSZ-G-BF2	
C1225	1-163-101-00	CERAMIC CHIP	22PF 5% 50V	IC1201	g-759-512-86	IC MB86140P-SH	
C1226	1-163-101-00	CERAMIC CHIP	22PF 5% 50V	IC1202	8-759-983-44	IC MB40176P	
C1227	1-163-093-00	CERAMIC CHIP	10PF 5% 50V	IC1203	g-759-512-85	IC MB3511P-SH	
C1228	1-163-117-00	CERAMIC CHIP	100PF 5% 50V	IC1204	g-759-711-23	IC NJM2234L	
C1229	1-163-117-00	CERAMIC CHIP	100PF 5% 50V	IC1205	g-759-711-23	IC NJM2234L	
C1230	1-163-117-00	CERAMIC CHIP	100PF 5% 50V	<COIL>			
C1231	1-124-902-00	ELECT	0.47MF 20% 50V	L1200	1-408-421-00	INDUCTOR 100UH	
C1232	1-136-171-00	FILM	0.33MF 5% 50V	L1201	1-408-419-00	INDUCTOR 68UH	
C1233	1-126-529-11	ELECT	0.47MF 20% 50V	L1202	1-408-421-00	INDUCTOR 100UH	
C1234	1-163-237-11	CERAMIC CHIP	27PF 5% 50V	L1203	1-408-419-00	INDUCTOR 68UH	
C1235	1-124-903-11	ELECT	1MF 20% 50V	L1204	1-408-413-00	INDUCTOR 22UH	
C1236	1-126-101-11	ELECT	100MF 20% 16V	L1205	1-408-421-00	INDUCTOR 100UH	
C1237	1-136-169-00	FILM	0.22MF 5% 50V	<TRANSISTOR>			
C1238	1-124-907-11	ELECT	10MF 20% 50V	Q1201	g-729-216-22	TRANSISTOR 2SA1162-G	
C1239	1-136-169-00	FILM	0.22MF 5% 50V	Q1202	g-729-920-74	TRANSISTOR 2SC2412K-QR	
C1240	1-163-237-11	CERAMIC CHIP	27PF 5% 50V	Q1203	g-729-920-74	TRANSISTOR 2SC2412K-QR	
C1241	1-163-037-11	CERAMIC CHIP	0.022MF 10% 25V	81204	g-729-920-74	TRANSISTOR 2SC2412K-QR	
C1242	1-163-114-00	CERAMIC CHIP	75PF 5% 50V	Q1205	g-729-920-74	TRANSISTOR 2SC2412K-QR	
C1243	1-126-101-11	ELECT	100MF 20% 16V	Q1206	g-729-920-74	TRANSISTOR 2SC2412K-QR	
C1244	1-163-125-00	CERAMIC CHIP	220PF 5% 50V	Q1207	g-729-920-74	TRANSISTOR 2SC2412K-QR	
C1245	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	81208	8-729-920-74	TRANSISTOR 2SC2412K-QR	
C1248	1-124-477-11	ELECT	47MF 20% 16V	Q1209	g-729-920-74	TRANSISTOR 2SC2412K-QR	
C1250	1-124-477-11	ELECT	47KF 20% 16V	Q1210	g-729-920-74	TRANSISTOR 2SC2412K-QR	
C1251	1-126-233-11	ELECT	22KF 20% 25V	Q1211	8-729-216-22	TRANSISTOR 2SA1162-G	
C1252	1-124-477-11	ELECT	47KF 20% 16V	Q1212	g-729-920-74	TRANSISTOR 2SC2412K-QR	
C1253	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	Q1213	g-729-920-74	TRANSISTOR 2SC2412K-QR	
C1254	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	<RESISTOR>			
C1255	1-124-477-11	ELECT	47MF 20% 16V	JR1201	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C1256	1-124-477-11	ELECT	47MF 20% 16V	JR1202	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C1257	1-124-477-11	ELECT	47KF 20% 16V	JR1205	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C1258	1-124-477-11	ELECT	47KF 20% 16V				
C1259	1-126-101-11	ELECT	100MF 20% 16V				
C1260	1-136-173-00	FILH	0.47MF 5% 50V				
C1261	1-124-477-11	ELECT	47MF 20% 16V				
C1262	1-124-477-11	ELECT	47MF 20% 16V				
C1263	1-124-477-11	ELECT	47MF 20% 16V				
C1264	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V				
C1265	1-163-093-00	CERAMIC CHIP	10PF 5% 50V				
C1266	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V				
C1267	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V				
C1268	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V				
C1269	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V				
C1270	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V				

V

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

Les composants identifiés par une trame et par une marque  $\Delta$  sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
JR1208	I-216-295-00	METAL GLAZE 0 5%	1/10W	11265	I-216-049-00	METAL GLAZE 1K 5%	1/10W
JR1210	I-216-295-00	METAL GLAZE 0 5%	1/10W	11266	I-216-049-00	METAL GLAZE 1K 5%	1/10W
JR1211	I-216-295-00	METAL GLAZE 0 5%	1/10W	11267	I-216-071-00	METAL GLAZE 8.2K 5%	1/10W
R1201	I-216-065-00	METAL GLAZE 4.7K 5%	1/10W	11268	I-216-049-00	METAL GLAZE 1K 5%	1/10W
R1203	I-216-049-00	METAL GLAZE 1K 5%	1/10W	11269	I-216-049-00	METAL GLAZE 1K 5%	1/10W
R1204	I-216-295-00	METAL GLAZE 0 5%	1/10W	11272	I-216-033-00	METAL GLAZE 220 5%	1/10W
R1205	I-216-025-00	METAL GLAZE 100 5%	1/10W	11273	I-216-033-00	METAL GLAZE 220 5%	1/10W
R1206	I-216-047-00	METAL GLAZE 820 5%	1/10W	11274	I-216-033-00	METAL GLAZE 220 5%	1/10W
R1207	I-216-027-00	METAL GLAZE 120 5%	1/10W	11275	I-216-033-00	METAL GLAZE 220 5%	1/10W
R1208	I-216-057-00	METAL GLAZE 2.2K 5%	1/10W	11276	I-216-033-00	METAL GLAZE 220 5%	1/10W
R1209	I-216-053-00	METAL GLAZE 1.5K 5%	1/10W	11277	I-216-025-00	METAL GLAZE 100 5%	1/10W
R1210	I-216-049-00	METAL GLAZE 1K 5%	1/10W	11278	I-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R1211	I-216-047-00	METAL GLAZE 820 5%	1/10W	11279	I-216-049-00	METAL GLAZE 1K 5%	1/10W
R1212	I-216-121-00	METAL GLAZE 1K 5%	1/10W	11280	I-216-049-00	METAL GLAZE 1K 5%	1/10W
R1213	I-216-049-00	METAL GLAZE 1K 5%	1/10W	<CONNECTOR>			
R1214	I-216-121-00	METAL GLAZE 1M 5%	1/10W	V11	*1-564-514-11	PLUG, CONNECTOR 11P	
R1215	I-216-057-00	METAL GLAZE 2.2K 5%	1/10W	V20	*1-564-513-11	PLUG, CONNECTOR 10P	
R1216	I-216-057-00	METAL GLAZE 2.2K 5%	1/10W	<CRYSTAL>			
R1217	I-216-043-00	METAL GLAZE 560 5%	1/10W	11201	I-527-722-00	OSCILLATOR, CRYSTAL	
R1218	I-216-043-00	METAL GLAZE 560 5%	1/10W	11202	I-527-722-00	OSCILLATOR, CRYSTAL	
R1219	I-216-049-00	METAL GLAZE 1K 5%	1/10W	*****			
R1220	I-216-049-00	METAL GLAZE 1K 5%	1/10W	MISCELLANEOUS			
R1221	I-216-115-00	METAL GLAZE 560K 5%	1/10W	*****			
R1222	I-216-065-00	METAL GLAZE 4.7K 5%	1/10W	A-1-426-350-11	COIL, DEMAGNETIZATION		
R1223	I-216-049-00	METAL GLAZE 1K 5%	1/10W	A-1-451-275-31	DEFLECTION YOKE (Y28PFA)		
R1224	I-216-065-00	METAL GLAZE 4.7K 5%	1/10W	1-452-032-00	MAGNET, DISK; 10MM $\phi$		
R1225	I-216-049-00	METAL GLAZE 1K 5%	1/10W	1-452-094-00	MAGNET, ROTABLE DISK; 15MM $\phi$		
R1226	I-216-043-00	METAL GLAZE 560 5%	1/10W	1-544-549-11	SPEAKER		
R1227	I-216-043-00	METAL GLAZE 560 5%	1/10W	1-573-657-11	PLUG, F-PIN		
R1228	I-216-043-00	METAL GLAZE 560 5%	1/10W	A-1-590-492-21	CORD, POWER (WITH CONNECTOR)		
R1229	I-216-043-00	METAL GLAZE 560 5%	1/10W	V901	A-8-737-753-05	PICTURE TUBE (A68JMT50X)	
R1230	I-216-049-00	METAL GLAZE 1K 5%	1/10W	*****			
R1231	I-216-045-00	METAL GLAZE 680 5%	1/10W	ACCESSORIES AND PACKING MATERIALS			
R1232	I-216-121-00	METAL GLAZE 1M 5%	1/10W	*****			
R1233	I-216-115-00	METAL GLAZE 560K 5%	1/10W	PART NO.	DESCRIPTION	REMARK	
R1234	I-216-047-00	METAL GLAZE 820 5%	1/10W	1-417-182-11	CONVERTER (EAC-25)	(KV-27TW75(C), KV-27TW76(C) ONLY)	
R1235	I-216-025-00	METAL GLAZE 100 5%	1/10W	1-562-443-11	CONNECTOR, ANTENNA	(KV-27TW75(U), KV-27TW76(U) ONLY)	
R1236	I-216-043-00	METAL GLAZE 560 5%	1/10W	2-300-016-00	LABEL, GLASS, REINFORCEMENT		
R1237	I-216-025-00	METAL GLAZE 100 5%	1/10W	*4-030-731-01	INDIVIDUAL CARTON		
R1238	I-216-079-00	METAL GLAZE 18K 5%	1/10W	*4-030-732-01	CUSHION (UPPER) (ASSY)		
R1239	I-216-073-00	METAL GLAZE 10K 5%	1/10W	*4-030-733-01	CUSHION (LOWER) (ASSY)		
R1240	I-216-073-00	METAL GLAZE 10K 5%	1/10W	4-032-388-21	MANUAL, INSTRUCTION		
R1241	I-216-025-00	METAL GLAZE 100 5%	1/10W	4-032-388-31	MANUAL, INSTRUCTION	(KV-27TW75(C), KV-27TW76(C) ONLY)	
R1242	I-216-049-00	METAL GLAZE 1K 5%	1/10W	4-032-388-41	MANUAL, INSTRUCTION	(KV-27TW75(U), KV-27TW76(U) ONLY)	
R1243	I-216-049-00	METAL GLAZE 1K 5%	1/10W	4-306-034-00	FLANGE NUT, (B) 5MM	(KV-27TW75(C), KV-27TW76(C) ONLY)	
R1245	I-216-049-00	METAL GLAZE 1K 5%	1/10W	*4-395-035-01	BAG, PROTECTION		
R1246	I-216-049-00	METAL GLAZE 1K 5%	1/10W	7-683-340-07	BOLT, HEXAGON 5X20	(KV-27TW75(C), KV-27TW76(C) ONLY)	
R1247	I-216-049-00	METAL GLAZE 1K 5%	1/10W	7-685-663-79	SCREW +BVTP 4X16 TYPE2 IT-3	(KV-27TW75(C), KV-27TW76(C) ONLY)	
R1248	I-216-049-00	METAL GLAZE 1K 5%	1/10W	REMOTE COMMANDER			
R1249	I-216-077-00	METAL GLAZE 15K 5%	1/10W	I-465-773-11	REMOTE COMMANDER (RM-Y102)		
R1250	I-216-073-00	METAL GLAZE 10K 5%	1/10W	9-998-985-01	COVER, BATTERY (FOR RM-Y102)		
R1251	I-216-065-00	METAL GLAZE 4.7K 5%	1/10W	English			
R1252	I-216-073-00	METAL GLAZE 10K 5%	1/10W	92AH0447-1			
R1253	I-216-073-00	METAL GLAZE 10K 5%	1/10W	Printed in Japan			
R1254	I-216-025-00	METAL GLAZE 100 5%	1/10W	© 1992 1			
R1255	I-216-049-00	METAL GLAZE 1K 5%	1/10W				
R1256	I-216-049-00	METAL GLAZE 1K 5%	1/10W				
R1257	I-216-073-00	METAL GLAZE 10K 5%	1/10W				
R1258	I-216-073-00	METAL GLAZE 10K 5%	1/10W				
R1259	I-216-025-00	METAL GLAZE 100 5%	1/10W				
R1260	I-216-043-00	METAL GLAZE 560 5%	1/10W				
R1261	I-216-073-00	METAL GLAZE 10K 5%	1/10W				
R1262	I-216-073-00	METAL GLAZE 10K 5%	1/10W				
R1263	I-216-025-00	METAL GLAZE 100 5%	1/10W				
R1264	I-216-049-00	METAL GLAZE 1K 5%	1/10W				